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**Department of Defense
Fiscal Year (FY) 2017 President's Budget Submission**

February 2016



Navy

Justification Book Volume 2 of 4

Aircraft Procurement, Navy

Budget Activity 05

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The estimated cost for this report for the Department of the Navy (DON) is \$63,049.

The estimated total cost for supporting the DON budget justification material is approximately \$1,834,000 for the 2016 fiscal year. This includes \$75,200 in supplies and \$1,758,800 in labor.

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Navy • President's Budget Submission FY 2017 • Procurement

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Department of Defense Appropriations Act, 2017

Aircraft Procurement, Navy

For construction, procurement, production, modification, and modernization of aircraft, equipment, including ordnance, spare parts, and accessories therefore; specialized equipment; expansion of public and private plants, including the land necessary therefore, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, \$14,502,178,000, to remain available for obligation until September 30, 2019.

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Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation -----	FY 2015 (Base & OCO) -----	FY 2016 Base Enacted -----	FY 2016 OCO Enacted -----	FY 2016 Total Enacted -----
Aircraft Procurement, Navy	14,997,923	17,719,209	210,990	17,930,199
Total Department of the Navy	14,997,923	17,719,209	210,990	17,930,199

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Department of the Navy
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)

14 Jan 2016

Appropriation -----	FY 2017 Base -----	FY 2017 OCO -----	FY 2017 Total -----
Aircraft Procurement, Navy	14,109,148	393,030	14,502,178
Total Department of the Navy	14,109,148	393,030	14,502,178

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Department of the Navy
 FY 2017 President's Budget
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 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: Aircraft Procurement, Navy

Budget Activity -----	FY 2015 (Base & OCO) -----	FY 2016 Base Enacted -----	FY 2016 OCO Enacted -----	FY 2016 Total Enacted -----
01. Combat Aircraft	10,636,707	12,205,031		12,205,031
03. Trainer Aircraft		8,914		8,914
04. Other Aircraft	314,623	1,011,394	53,848	1,065,242
05. Modification of Aircraft	2,328,627	2,495,844	156,199	2,652,043
06. Aircraft Spares and Repair Parts	1,242,510	1,463,515		1,463,515
07. Aircraft Support Equip & Facilities	475,456	534,511	943	535,454
Total Aircraft Procurement, Navy	14,997,923	17,719,209	210,990	17,930,199

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Department of the Navy
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 (Dollars in Thousands)

14 Jan 2016

Appropriation: Aircraft Procurement, Navy

Budget Activity -----	FY 2017 Base -----	FY 2017 OCO -----	FY 2017 Total -----
01. Combat Aircraft	8,946,852	184,912	9,131,764
03. Trainer Aircraft	5,849		5,849
04. Other Aircraft	690,810	70,000	760,810
05. Modification of Aircraft	2,565,436	136,094	2,701,530
06. Aircraft Spares and Repair Parts	1,407,626	1,500	1,409,126
07. Aircraft Support Equip & Facilities	492,575	524	493,099
Total Aircraft Procurement, Navy	14,109,148	393,030	14,502,178

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Department of the Navy
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 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											

Combat Aircraft											
1	EA-18G	B	15	1,503,534	10	858,000			10	858,000	U
2	F/A-18E/F (Fighter) Hornet	A			5	350,000			5	350,000	U
3	Joint Strike Fighter CV	A	4	(927,568)	6	(1,062,542)			6	(1,062,542)	U
	Less: Advance Procurement (PY)			(-79,016)		(-29,400)				(-29,400)	U
				-----		-----				-----	
				848,552		1,033,142				1,033,142	
4	Joint Strike Fighter CV										
	Advance Procurement (CY)			29,400		48,630				48,630	U
	C (FY 2015 for FY 2016) (M)			(29,400)							
	C (FY 2016 for FY 2017) (M)					(48,630)				(48,630)	
	C (FY 2017 for FY 2018) (M)										
5	JSF STOVL		6	(1,287,605)	15	(2,291,599)			15	(2,291,599)	U
	Less: Advance Procurement (PY)			(-103,195)		(-143,885)				(-143,885)	U
				-----		-----				-----	
				1,184,410		2,147,714				2,147,714	
6	JSF STOVL										
	Advance Procurement (CY)			143,885		203,060				203,060	U
	C (FY 2015 for FY 2016) (M)			(143,885)							
	C (FY 2016 for FY 2017) (M)					(203,060)				(203,060)	
	C (FY 2017 for FY 2018) (M)										
7	CH-53K (Heavy Lift)	A									U
	Less: Advance Procurement (PY)										U
				-----		-----				-----	
8	CH-53K (Heavy Lift)										
	Advance Procurement (CY)					41,300				41,300	U
	C (FY 2016 for FY 2017) (M)					(41,300)				(41,300)	
	C (FY 2017 for FY 2018) (M)										

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14 Jan 2016

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft									

Combat Aircraft									
1	EA-18G	B							U
2	F/A-18E/F (Fighter) Hornet	A			2	184,912	2	184,912	U
3	Joint Strike Fighter CV	A	4	(939,280)			4	(939,280)	U
	Less: Advance Procurement (PY)			(-48,630)				(-48,630)	U
				-----		-----		-----	
				890,650				890,650	
4	Joint Strike Fighter CV								
	Advance Procurement (CY)			80,908				80,908	U
	C (FY 2015 for FY 2016) (M)								
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)			(80,908)				(80,908)	
5	JSF STOVL		16	(2,240,828)			16	(2,240,828)	U
	Less: Advance Procurement (PY)			(-203,060)				(-203,060)	U
				-----		-----		-----	
				2,037,768				2,037,768	
6	JSF STOVL								
	Advance Procurement (CY)			233,648				233,648	U
	C (FY 2015 for FY 2016) (M)								
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)			(233,648)				(233,648)	
7	CH-53K (Heavy Lift)	A	2	(389,915)			2	(389,915)	U
	Less: Advance Procurement (PY)			(-41,300)				(-41,300)	U
				-----		-----		-----	
				348,615				348,615	
8	CH-53K (Heavy Lift)								
	Advance Procurement (CY)			88,365				88,365	U
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)			(88,365)				(88,365)	

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
9	V-22 (Medium Lift)		19	(1,554,588)	19	(1,463,609)			19	(1,463,609)	U
	Less: Advance Procurement (PY)			(-59,269)		(-67,254)				(-67,254)	U
				-----		-----		-----		-----	
				1,495,319		1,396,355				1,396,355	
10	V-22 (Medium Lift)										
	Advance Procurement (CY)			51,564		43,853				43,853	U
	C (FY 2015 for FY 2016) (M)			(51,564)							
	C (FY 2016 for FY 2017) (M)					(43,853)				(43,853)	
	C (FY 2017 for FY 2018) (M)										
11	H-1 Upgrades (UH-1Y/AH-1Z)	A	28	(895,141)	29	(847,308)			29	(847,308)	U
	Less: Advance Procurement (PY)			(-60,000)		(-63,354)				(-63,354)	U
				-----		-----		-----		-----	
				835,141		783,954				783,954	
12	H-1 Upgrades (UH-1Y/AH-1Z)										
	Advance Procurement (CY)			63,354		56,168				56,168	U
	C (FY 2015 for FY 2016) (M)			(63,354)							
	C (FY 2016 for FY 2017) (M)					(56,168)				(56,168)	
	C (FY 2017 for FY 2018) (M)										
13	MH-60S (MYP)	A	8	(215,289)		(28,232)				(28,232)	U
	Less: Advance Procurement (PY)			(-33,149)							U
				-----		-----		-----		-----	
				182,140		28,232				28,232	
14	MH-60R (MYP)	A	29	(1,063,292)	29	(1,168,892)			29	(1,168,892)	U
	Less: Advance Procurement (PY)			(-197,830)		(-226,592)				(-226,592)	U
				-----		-----		-----		-----	
				865,462		942,300				942,300	
15	MH-60R (MYP)										
	Advance Procurement (CY)			117,846							U
	C (FY 2015 for FY 2016) (M)			(117,846)							

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Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
9	V-22 (Medium Lift)		16	(1,322,857)			16	(1,322,857)	U
	Less: Advance Procurement (PY)			(-58,723)				(-58,723)	U
				-----				-----	
				1,264,134				1,264,134	
10	V-22 (Medium Lift)								
	Advance Procurement (CY)			19,674				19,674	U
	C (FY 2015 for FY 2016) (M)								
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)			(19,674)				(19,674)	
11	H-1 Upgrades (UH-1Y/AH-1Z)	A	24	(815,946)			24	(815,946)	U
	Less: Advance Procurement (PY)			(-56,168)				(-56,168)	U
				-----				-----	
				759,778				759,778	
12	H-1 Upgrades (UH-1Y/AH-1Z)								
	Advance Procurement (CY)			57,232				57,232	U
	C (FY 2015 for FY 2016) (M)								
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)			(57,232)				(57,232)	
13	MH-60S (MYP)	A							U
	Less: Advance Procurement (PY)								U
				-----				-----	
14	MH-60R (MYP)	A		(61,177)				(61,177)	U
	Less: Advance Procurement (PY)								U
				-----				-----	
				61,177				61,177	
15	MH-60R (MYP)								
	Advance Procurement (CY)								U
	C (FY 2015 for FY 2016) (M)								

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Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
16	P-8A Poseidon	A	9	(2,274,731)	17	(3,181,152)			17	(3,181,152)	U
	Less: Advance Procurement (PY)			(-152,044)		(-203,387)				(-203,387)	U
				2,122,687		2,977,765				2,977,765	
17	P-8A Poseidon										
	Advance Procurement (CY)			48,457		250,568				250,568	U
	C (FY 2015 for FY 2016) (M)			(42,271)							
	C (FY 2015 for FY 2017) (M)			(2,234)							
	C (FY 2015 for FY 2018) (M)			(2,234)							
	C (FY 2015 for FY 2019) (M)			(1,718)							
	C (FY 2016 for FY 2017) (M)					(240,773)			(240,773)		
	C (FY 2016 for FY 2018) (M)					(5,499)			(5,499)		
	C (FY 2016 for FY 2019) (M)					(4,296)			(4,296)		
	C (FY 2017 for FY 2018) (M)										
18	E-2D Adv Hawkeye	A	5	(1,044,691)	5	(1,023,831)			5	(1,023,831)	U
	Less: Advance Procurement (PY)			(-125,500)		(-175,177)				(-175,177)	U
				919,191		848,654				848,654	
19	E-2D Adv Hawkeye										
	Advance Procurement (CY)			225,765		195,336				195,336	U
	C (FY 2015 for FY 2016) (M)			(124,170)							
	C (FY 2015 for FY 2017) (M)			(50,797)							
	C (FY 2015 for FY 2018) (M)			(50,798)							
	C (FY 2016 for FY 2017) (M)					(143,181)			(143,181)		
	C (FY 2016 for FY 2018) (M)					(52,155)			(52,155)		
	C (FY 2017 for FY 2018) (M)										
Total Combat Aircraft				10,636,707		12,205,031				12,205,031	
Budget Activity 03: Trainer Aircraft											

Trainer Aircraft											
20	JPATS	A				8,914				8,914	U
Total Trainer Aircraft						8,914				8,914	

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
16	P-8A Poseidon	A	11	(2,183,245)			11	(2,183,245)	U
	Less: Advance Procurement (PY)			(-243,007)				(-243,007)	U
				1,940,238				1,940,238	
17	P-8A Poseidon								
	Advance Procurement (CY)			123,140				123,140	U
	C (FY 2015 for FY 2016) (M)								
	C (FY 2015 for FY 2017) (M)								
	C (FY 2015 for FY 2018) (M)								
	C (FY 2015 for FY 2019) (M)								
	C (FY 2016 for FY 2017) (M)								
	C (FY 2016 for FY 2018) (M)								
	C (FY 2016 for FY 2019) (M)								
	C (FY 2017 for FY 2018) (M)			(123,140)				(123,140)	
18	E-2D Adv Hawkeye	A	6	(1,154,569)			6	(1,154,569)	U
	Less: Advance Procurement (PY)			(-238,086)				(-238,086)	U
				916,483				916,483	
19	E-2D Adv Hawkeye								
	Advance Procurement (CY)			125,042				125,042	U
	C (FY 2015 for FY 2016) (M)								
	C (FY 2015 for FY 2017) (M)								
	C (FY 2015 for FY 2018) (M)								
	C (FY 2016 for FY 2017) (M)								
	C (FY 2016 for FY 2018) (M)								
	C (FY 2017 for FY 2018) (M)			(125,042)				(125,042)	
Total Combat Aircraft				8,946,852		184,912		9,131,764	
Budget Activity 03: Trainer Aircraft									

Trainer Aircraft									
20	JPATS	A		5,849				5,849	U
Total Trainer Aircraft				5,849				5,849	

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14 Jan 2016

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 04: Other Aircraft											

Other Aircraft											
21	KC-130J	A	1	(106,928)	2	(201,339)			2	(201,339)	U
	Less: Advance Procurement (PY)			(-14,638)		(-16,288)				(-16,288)	U
				-----		-----				-----	
				92,290		185,051				185,051	
22	KC-130J										
	Advance Procurement (CY)					24,451				24,451	U
	C (FY 2016 for FY 2017) (M)					(24,451)				(24,451)	
	C (FY 2017 for FY 2018) (M)										
23	MQ-4 Triton	A			4	(632,755)			4	(632,755)	U
	Less: Advance Procurement (PY)					(-67,670)				(-67,670)	U
				-----		-----				-----	
						565,085				565,085	
24	MQ-4 Triton										
	Advance Procurement (CY)			67,670		54,577				54,577	U
	C (FY 2015 for FY 2016) (M)			(67,670)							
	C (FY 2016 for FY 2017) (M)					(54,577)				(54,577)	
	C (FY 2017 for FY 2018) (M)										
25	MQ-8 UAV	B	5	109,663	5	163,680			5	163,680	U
26	STUASL0 UAV		3	45,000		3,450	3	53,848	3	57,298	U
27	Other Support Aircraft				1	15,100			1	15,100	U
				-----		-----				-----	
	Total Other Aircraft			314,623		1,011,394		53,848		1,065,242	
Budget Activity 05: Modification of Aircraft											

Modification of Aircraft											
28	EA-6 Series	A		10,881		7,799				7,799	U
29	AEA Systems			44,768		36,233				36,233	U

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 04: Other Aircraft									

Other Aircraft									
21	KC-130J	A	2	(161,321)			2	(161,321)	U
	Less: Advance Procurement (PY)			(-32,451)				(-32,451)	U
				-----		-----		-----	
				128,870				128,870	
22	KC-130J								
	Advance Procurement (CY)			24,848				24,848	U
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)			(24,848)				(24,848)	
23	MQ-4 Triton	A	2	(463,582)			2	(463,582)	U
	Less: Advance Procurement (PY)			(-54,577)				(-54,577)	U
				-----		-----		-----	
				409,005				409,005	
24	MQ-4 Triton								
	Advance Procurement (CY)			55,652				55,652	U
	C (FY 2015 for FY 2016) (M)								
	C (FY 2016 for FY 2017) (M)								
	C (FY 2017 for FY 2018) (M)			(55,652)				(55,652)	
25	MQ-8 UAV	B	1	72,435			1	72,435	U
26	STUASL0 UAV					4	70,000	4	70,000
27	Other Support Aircraft								U
				-----		-----		-----	
	Total Other Aircraft			690,810		70,000		760,810	
Budget Activity 05: Modification of Aircraft									

Modification of Aircraft									
28	EA-6 Series	A							U
29	AEA Systems			51,900				51,900	U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 14, 2016 at 09:45:55

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	AV-8 Series	A		54,066		39,619		38,509		78,128	U
31	Adversary	A		4,918		5,441				5,441	U
32	F-18 Series	A		704,324		913,221		7,130		920,351	U
33	H-46 Series	A		402							U
34	H-53 Series	A		36,152		36,000				36,000	U
35	SH-60 Series	A		100,802		94,899				94,899	U
36	H-1 Series	A		42,071		36,668				36,668	U
37	EP-3 Series	A		67,845		41,784		6,300		48,084	U
38	P-3 Series	A		2,658		3,067				3,067	U
39	E-2 Series	A		21,059		19,113				19,113	U
40	Trainer A/C Series	A		10,208		27,980				27,980	U
41	C-2A	A				7,157				7,157	U
42	C-130 Series	A		39,339		65,935				65,935	U
43	FEWSG	A		640		633				633	U
44	Cargo/Transport A/C Series	A		4,035		8,916				8,916	U
45	E-6 Series	A		206,127		178,987				178,987	U
46	Executive Helicopters Series	A		68,128		66,624				66,624	U
47	Special Project Aircraft	A		23,865		21,988		14,198		36,186	U
48	T-45 Series	A		90,024		81,734				81,734	U
49	Power Plant Changes	A		22,463		9,917				9,917	U
50	JPATS Series	A		1,085		12,537				12,537	U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 14, 2016 at 09:45:55

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
30	AV-8 Series	A		60,818			60,818		U
31	Adversary	A		5,191			5,191		U
32	F-18 Series	A		1,023,492			1,023,492		U
33	H-46 Series	A							U
34	H-53 Series	A		46,095			46,095		U
35	SH-60 Series	A		108,328		3,000	111,328		U
36	H-1 Series	A		46,333		3,740	50,073		U
37	EP-3 Series	A		14,681		7,505	22,186		U
38	P-3 Series	A		2,781			2,781		U
39	E-2 Series	A		32,949			32,949		U
40	Trainer A/C Series	A		13,199			13,199		U
41	C-2A	A		19,066			19,066		U
42	C-130 Series	A		61,788			61,788		U
43	FEWSG	A		618			618		U
44	Cargo/Transport A/C Series	A		9,822			9,822		U
45	E-6 Series	A		222,077			222,077		U
46	Executive Helicopters Series	A		66,835			66,835		U
47	Special Project Aircraft	A		16,497		14,869	31,366		U
48	T-45 Series	A		114,887			114,887		U
49	Power Plant Changes	A		16,893			16,893		U
50	JPATS Series	A		17,401			17,401		U

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14 Jan 2016

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
51	Common ECM Equipment	A		184,664		123,732		71,174		194,906	U
52	Common Avionics Changes	A		146,084		155,602		13,988		169,590	U
53	Common Defensive Weapon System	A		1,958		3,062				3,062	U
54	ID Systems	A		38,880		41,063				41,063	U
55	P-8 Series			29,797		28,092				28,092	U
56	MAGTF EW for Aviation	A		17,170		7,680				7,680	U
57	MQ-8 Series			8,741		16,304				16,304	U
58	RQ-7 Series					3,773				3,773	U
59	V-22 (Tilt/Rotor ACFT) Osprey	B		109,152		140,408		4,900		145,308	U
60	F-35 STOVL Series	A		215,819		204,464				204,464	U
61	F-35 CV Series	A		20,502		48,527				48,527	U
62	QRC	A				6,885				6,885	U
Total Modification of Aircraft				2,328,627		2,495,844		156,199		2,652,043	
Budget Activity 06: Aircraft Spares and Repair Parts											

Aircraft Spares and Repair Parts											
63	Spares and Repair Parts	A		1,242,510		1,463,515				1,463,515	U
Total Aircraft Spares and Repair Parts				1,242,510		1,463,515				1,463,515	
Budget Activity 07: Aircraft Support Equip & Facilities											

Aircraft Support Equip & Facilities											
64	Common Ground Equipment	A		367,359		417,359				417,359	U

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
51	Common ECM Equipment	A		143,773		98,240		242,013	U
52	Common Avionics Changes	A		164,839				164,839	U
53	Common Defensive Weapon System	A		4,403				4,403	U
54	ID Systems	A		45,768				45,768	U
55	P-8 Series			18,836				18,836	U
56	MAGTF EW for Aviation	A		5,676				5,676	U
57	MQ-8 Series			19,003				19,003	U
58	RQ-7 Series			3,534				3,534	U
59	V-22 (Tilt/Rotor ACFT) Osprey	B		141,545		8,740		150,285	U
60	F-35 STOVL Series	A		34,928				34,928	U
61	F-35 CV Series	A		26,004				26,004	U
62	QRC	A		5,476				5,476	U
Total Modification of Aircraft				2,565,436		136,094		2,701,530	
Budget Activity 06: Aircraft Spares and Repair Parts									

Aircraft Spares and Repair Parts									
63	Spares and Repair Parts	A		1,407,626		1,500		1,409,126	U
Total Aircraft Spares and Repair Parts				1,407,626		1,500		1,409,126	
Budget Activity 07: Aircraft Support Equip & Facilities									

Aircraft Support Equip & Facilities									
64	Common Ground Equipment	A		390,103				390,103	U

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Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
65	Aircraft Industrial Facilities	A		24,779		24,010		943		24,953	U
66	War Consumables	A		15,939		38,027				38,027	U
67	Other Production Charges	A		5,630		2,455				2,455	U
68	Special Support Equipment	A		60,339		50,859				50,859	U
69	First Destination Transportation	A		1,168		1,801				1,801	U
70	Cancelled Account Adjustments	A		242							U
Total Aircraft Support Equip & Facilities				475,456		534,511		943		535,454	
Total Aircraft Procurement, Navy				14,997,923		17,719,209		210,990		17,930,199	

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
65	Aircraft Industrial Facilities	A		23,194		524		23,718	U
66	War Consumables	A		40,613				40,613	U
67	Other Production Charges	A		860				860	U
68	Special Support Equipment	A		36,282				36,282	U
69	First Destination Transportation	A		1,523				1,523	U
70	Cancelled Account Adjustments	A							U
Total Aircraft Support Equip & Facilities				492,575		524		493,099	
Total Aircraft Procurement, Navy				14,109,148		393,030		14,502,178	

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4	01	01	0147	Joint Strike Fighter CV, Advance Procurement.....	Volume 1 - 31
5	01	01	0152	JSF STOVL.....	Volume 1 - 35
6	01	01	0152	JSF STOVL, Advance Procurement.....	Volume 1 - 45
7	01	01	0158	CH-53K (Heavy Lift).....	Volume 1 - 49
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9	01	01	0164	V-22 (Medium Lift).....	Volume 1 - 61
10	01	01	0164	V-22 (Medium Lift), Advance Procurement.....	Volume 1 - 73
11	01	01	0178	UH-1Y/AH-1Z.....	Volume 1 - 79
12	01	01	0178	UH-1Y/AH-1Z, Advance Procurement.....	Volume 1 - 97
13	01	01	0179	MH-60S (MYP).....	Volume 1 - 103
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40	05	01	0549	Trainer Acft Series.....	Volume 2 - 461
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42	05	01	0560	C-130 Series.....	Volume 2 - 493
43	05	01	0561	Flt Elect Wrfr Supt Grp (FEWSG).....	Volume 2 - 527
44	05	01	0562	Cargo/Transport Acft Series.....	Volume 2 - 533
45	05	01	0564	E-6 Series.....	Volume 2 - 557
46	05	01	0566	Executive Helicopters Series.....	Volume 2 - 621
47	05	01	0567	Special Project Acft.....	Volume 2 - 659
48	05	01	0569	T-45 Series.....	Volume 2 - 671
49	05	01	0570	Power Plant Changes.....	Volume 2 - 705
50	05	01	0571	JT Primary Acft Trnr Sys (JPATS).....	Volume 2 - 711
51	05	01	0576	Common ECM Equipment.....	Volume 2 - 727
52	05	01	0577	Common Avionics Changes.....	Volume 2 - 759
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C-130 Series	0560	42	05	01.....	Volume 2 - 493
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MQ-4 TRITON	0442	23	04	01.....	Volume 1 - 175
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UH-1Y/AH-1Z	0178	11	01	01.....	Volume 1 - 79
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C-2A	0556	41	05	01.....	Volume 2 - 477
Cargo/Transport Acft Series	0562	44	05	01.....	Volume 2 - 533
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Common ECM Equipment	0576	51	05	01.....	Volume 2 - 727
E-2 Series	0544	39	05	01.....	Volume 2 - 397
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JT Primary Acft Trnr Sys (JPATS)	0571	50	05	01.....	Volume 2 - 711
MAGTF EW for Aviation	0587	56	05	01.....	Volume 2 - 833
MQ-8 Series	0588	57	05	01.....	Volume 2 - 845
P-3 Series	0538	38	05	01.....	Volume 2 - 381
P-8 Series	0586	55	05	01.....	Volume 2 - 807
Power Plant Changes	0570	49	05	01.....	Volume 2 - 705
QRC	0595	62	05	01.....	Volume 2 - 939
RQ-7 Series	0589	58	05	01.....	Volume 2 - 861
SH-60 Series	0530	35	05	01.....	Volume 2 - 293
Special Project Acft	0567	47	05	01.....	Volume 2 - 659
T-45 Series	0569	48	05	01.....	Volume 2 - 671
Trainer Acft Series	0549	40	05	01.....	Volume 2 - 461
V-22 (Tilt/Rotor Acft) Osprey	0590	59	05	01.....	Volume 2 - 867

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0511 / EA-6 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,375.763	10.881	7.799	-	-	-	-	-	-	-	-	3,394.443
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,375.763	10.881	7.799	-	-	-	-	-	-	-	-	3,394.443
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,375.763	10.881	7.799	-	-	-	-	-	-	-	-	3,394.443

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the EA-6B aircraft. The EA-6B Prowler is a four-seat, twin-engine, mid-wing, tactical, electronic attack aircraft. The EA-6B is flown by only Marine Corps squadrons in FY 2017 to provide DoD tactical electronic attack capability. The projected inventory is 20 ICAP III aircraft in FY 2017, all in Active service. Eleven (11) ICAP III aircraft will be in Section 1 Level 1000 preservation in FY 2017. The designated service life is 12,500 flight hours, with an average of 3,450 flight hours of service life remaining per aircraft. Modifications budgeted and programmed include software/hardware modifications for correction of deficiencies, mandates, and to address obsolescence issues will continue in FY 2017 using FY 2016 funding.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0511 / EA-6 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85) (Safety of Flight /Reliability)			- / 1,143.880	- / 4.013	- / 0.268	- / -	- / -	- / -
P-3a	2 / ICAP III (001-01) (SAFETY OF FLIGHT / RELIABILITY)			- / 512.607	- / 6.868	- / 7.531	- / -	- / -	- / -
P-3a	3 / INACTIVE OSIPS (RELIABILITY / MISSION CAPABILITY)			- / 1,719.276	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 3,375.763	- / 10.881	- / 7.799	- / -	- / -	- / -

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85) (Safety of Flight /Reliability)			- / -	- / -	- / -	- / -	- / -	- / 1,148.161
P-3a	2 / ICAP III (001-01) (SAFETY OF FLIGHT / RELIABILITY)			- / -	- / -	- / -	- / -	- / -	- / 527.006
P-3a	3 / INACTIVE OSIPS (RELIABILITY / MISSION CAPABILITY)			- / -	- / -	- / -	- / -	- / -	- / 1,719.276
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 3,394.443

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The EA-6B Prowler is a Low Density High Demand electronic attack platform. The aircraft are 40+ years old. Considerable modifications have been required in two basic categories to keep the systems viable: weapons delivery and airframe reliability. Weapons delivery includes Airborne Electronic Attack (AEA) systems and its ancillary equipment. Several systems on the aircraft are based on obsolete software and techniques. Modifications are required to maintain safety of flight as the platform ages; Fatigue Life Expended (FLE), advanced corrosion, and tired iron must be addressed. These investments are required to keep the aircraft and its systems/subsystems viable until the platform is retired.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0511 / EA-6 Series				Modification Number / Title: 1 / EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,143.880	4.013	0.268	-	-	-	-	-	-	-	-	1,148.161
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,143.880	4.013	0.268	-	-	-	-	-	-	-	-	1,148.161
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,143.880	4.013	0.268	-	-	-	-	-	-	-	-	1,148.161

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational and Safety Improvement Program covers EA-6B Structural, Systems, Sub-Systems, and Avionics modifications and improvement to mission degrading deficiencies discovered during test reviews, flight line inspections, and preventive maintenance inspections related to reliability, maintainability, sustainability, training, and safety of flight.

Current Modifications:

Aircraft Structures (Structural Readiness Improvements) - Includes required modifications based on fatigue life analysis and aircraft changes to ensure EA-6B aircraft availability, reliability, and maintainability of airframe structural components through FY19.

Funding provided to support all EA-6B airframe readiness, hardware readiness, electrical component readiness, obsolescence prevention, inspections, installations, and safety of flight improvements throughout remaining airframe service. Fund application to the structure, system/subsystem, and avionics deficiencies will be made to ensure aircraft service readiness and reliability.

Beginning in FY16, OSIP 032-85 will be budgeted under OSIP 01-01 ICAP III with the exception of installation costs for FY15 procurements.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0511 / EA-6 Series	Modification Number / Title: 1 / EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85)

Models of Systems Affected: EA-6 Series	Modification Type: Safety of Flight /Reliability	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85)												
A Kits												
Recurring												
1.1.5) AIRCRAFT SYSTEMS - NonOrganic	128 / 6.290	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	128 / 6.290
1.1.6) AIRCRAFT AVIONICS - NonOrganic	128 / 5.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	128 / 5.500
1.1.7) AIRCRAFT STRUCTURES - NonOrganic	118 / 5.279	11 / 0.557	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	129 / 5.836
1.1.9) Archive Modifications - Organic	4,198 / 599.798	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,198 / 599.798
Subtotal: Recurring	- / 616.867	- / 0.557	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 617.424
Non-Recurring												
1.2.1) Installation Kits N/R - Organic	4 / 60.263	- / 0.617	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 60.880
Subtotal: Non-Recurring	- / 60.263	- / 0.617	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 60.880
B Kits												
Recurring												
2.1.5) Archive Modifications - Organic	2,128 / 127.340	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,128 / 127.340
Subtotal: Recurring	- / 127.340	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 127.340
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic	- / 60.446	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 60.446
Subtotal: Non-Recurring	- / 60.446	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 60.446
Subtotal: EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85)	6,704 / 864.916	11 / 1.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6,715 / 866.090
Subtotal: Procurement, All Modification Items	- / 864.916	- / 1.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 866.090

Support (All Modification Items)

3.1) Engineering Change Order	- / 3.286	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.286
3.2) Data	- / 14.451	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.451
3.3) Training Equipment	15 / 10.947	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 10.947
3.4) Support Equipment	- / 17.433	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.433
3.5) ILS	- / 8.004	- / 0.459	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.463
3.6) Other Support ⁽¹⁾	- / 84.938	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 85.338
3.7) Interim Contractor Support	- / 0.504	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.504
3.8) PRIOR YR INSTALLATION COST	1,473 / 136.461	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,473 / 136.461

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0511 / EA-6 Series	Modification Number / Title: 1 / EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85)

Models of Systems Affected: EA-6 Series	Modification Type: Safety of Flight /Reliability	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Support</i>	- / 276.024	- / 0.859	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 276.883
Installation												
<i>Modification Item 1 of 1:</i> EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85)	- / 2.940	- / 1.980	- / 0.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.188
<i>Subtotal: Installation</i>	- / 2.940	- / 1.980	- / 0.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.188
Total												
Total Cost (Procurement + Support + Installation)	1,143.880	4.013	0.268	-	-	-	-	-	-	-	-	1,148.161

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0511 / EA-6 Series	Modification Number / Title: 1 / EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85)

Modification Item 1 of 1: EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85)

Manufacturer Information

Manufacturer Name: Commercial - Aircraft Structures	Manufacturer Location: TBD
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015						
Delivery Dates	Oct 2015						

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: Avionics / Aircraft Systems

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	164 / 2.000	92 / 1.380	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	256 / 3.380
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	164 / 2.000	92 / 1.380	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	256 / 3.380

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	164	24	24	22	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	256
Out	164	24	24	22	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	256

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0511 / EA-6 Series	Modification Number / Title: 1 / EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85)

Modification Item 1 of 1: EA-6B AVIONICS AND STRUCTURAL IMPROVEMENTS (032-85)

Installation Information

Method of Implementation: DEPOT FIELD MOD TEAM:: Installation Name: AIRCRAFT STRUCTURES

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	78 / 0.940	40 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	118 / 1.540
FY 2015	- / -	- / -	11 / 0.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.268
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	78 / 0.940	40 / 0.600	11 / 0.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	129 / 1.808

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	78	10	10	10	10	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	129
Out	78	10	10	10	10	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	129

Method of Implementation (Organic): Archive Modifications - Not Installed **Installation Quantity:** 4198

Method of Implementation (Organic): Installation Kits N/R - Not Installed **Installation Quantity:** 4

Method of Implementation (Organic): Archive Modifications - Not Installed **Installation Quantity:** 2128

Footnotes:

(1) Other Support includes field activity and depot support required to manage modification efforts.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0511 / EA-6 Series				Modification Number / Title: 2 / ICAP III (001-01)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	512.607	6.868	7.531	-	-	-	-	-	-	-	-	527.006
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	512.607	6.868	7.531	-	-	-	-	-	-	-	-	527.006
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	512.607	6.868	7.531	-	-	-	-	-	-	-	-	527.006

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational and Safety Improvement Program covers the EA-6B Improved Capabilities III (ICAP III) system modifications. Specifically, the modification program replaced the ALQ-99 Receiver System with the ALQ-218 receiver system, replaced the TDY-43 display system with a new Commercial Off The Shelf (COTS) based display system for the Pilot and three Electronic Countermeasures Officers (ECMOs), upgraded the Recorder Reproducer Set with a new Digital Recorder, incorporated the Multi-Mission Advanced Tactical Terminal (MATT) to provide reception of data links, incorporated the USQ-113 Communication Receiver/Jammer with the ALQ-218, updated mission planning for ICAP III to Joint Mission Planning System (JMPS), and incorporated Link-16 to include basic electronic warfare battle management capabilities. LITENING Pod integration provides a demonstrated capability and usefulness to support integrated targeting and convoy protection when using the AN/AAQ-28 LITENING Pod system on AV-8B aircraft in conjunction with EA-6B aircraft.

AVIONICS KITS: Software/hardware modifications for correction of deficiencies, mandates, and to address obsolescence issues associated with Multi-functional Information Distribution System (MIDs), MATT replacement (USB ENTR), Cryptographic mod kits, ARN-153 Tactical Air Navigational System, and AIC-45 Intercom.

AIRCRAFT SYSTEMS AND STRUCTURES (SYSTEMS/SUB-SYSTEMS SAFETY AND OBSOLESCENCE): Includes modifications to improve safety and address obsolescence issues of avionics, electrical, life support, propulsion/power, landing gear, hydraulics, pneumatic, primary secondary flight controls, and environmental control systems.

Beginning in FY16, OSIP 032-85 funds have transitioned to OSIP 01-01 ICAP III with the exception of installation costs for FY15 procurements.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0511 / EA-6 Series						Modification Number / Title: 2 / ICAP III (001-01)			
Models of Systems Affected: EA-6 SERIES				Modification Type: SAFETY OF FLIGHT / RELIABILITY						Related RDT&E PEs: 0604270N			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> ICAP III (001-01)													
A Kits													
Recurring													
1.1.1) Archived ECPs - Organic	30 / 327.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 327.078	
1.1.2) AVIONICS - NonOrganic ⁽²⁾	190 / 10.350	32 / 1.939	30 / 1.465	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	252 / 13.754	
1.1.3) Emergent Safety Requirements - Organic ⁽³⁾	- / -	- / -	- / 1.243	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.243	
<i>Subtotal: Recurring</i>	- / 337.428	- / 1.939	- / 2.708	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 342.075	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽⁴⁾	- / 8.211	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.511	
<i>Subtotal: Non-Recurring</i>	- / 8.211	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.511	
B Kits													
Recurring													
2.1.1) Installation Equipment - Organic	- / 9.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.650	
<i>Subtotal: Recurring</i>	- / 9.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.650	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 4.428	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.428	
<i>Subtotal: Non-Recurring</i>	- / 4.428	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.428	
<i>Subtotal: ICAP III (001-01)</i>	220 / 359.717	32 / 2.239	30 / 2.708	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	282 / 364.664	
<i>Subtotal: Procurement, All Modification Items</i>	- / 359.717	- / 2.239	- / 2.708	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 364.664	
Support (All Modification Items)													
3.1) Integration ⁽⁵⁾	- / 3.760	- / 3.236	- / 0.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.501	
3.2) Engineering Change Orders	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	
3.3) Data	- / 1.458	- / -	- / 0.611	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.069	
3.4) Training Equipment	12 / 79.618	- / -	- / 0.535	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 80.153	
3.5) Support Equipment	- / 18.999	- / -	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.399	
3.6) ILS	- / 6.815	- / 0.446	- / 0.473	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.734	
3.7) Other Support ⁽⁶⁾	- / 139.842	- / 0.447	- / 0.864	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 141.153	
3.8) Interim Contractor Support	- / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.058	
<i>Subtotal: Support</i>	- / 150.750	- / 4.129	- / 3.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 158.267	
Installation													

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0511 / EA-6 Series						Modification Number / Title: 2 / ICAP III (001-01)		
Models of Systems Affected: EA-6 SERIES				Modification Type: SAFETY OF FLIGHT / RELIABILITY				Related RDT&E PEs: 0604270N				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
<i>Modification Item 1 of 1: ICAP III (001-01)</i>	- / 2.140	- / 0.500	- / 1.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.075
<i>Subtotal: Installation</i>	- / 2.140	- / 0.500	- / 1.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.075
Total												
Total Cost (Procurement + Support + Installation)	512.607	6.868	7.531	-	-	-	-	-	-	-	-	527.006

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0511 / EA-6 Series	Modification Number / Title: 2 / ICAP III (001-01)

Modification Item 1 of 1: ICAP III (001-01)

Manufacturer Information

Manufacturer Name: Commercial / SPAWAR-Avionics				Manufacturer Location: San Diego, CA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Mar 2016					
Delivery Dates	Oct 2015	Oct 2016					

Installation Information

Method of Implementation: DEPOT FIELD MOD TEAM:: Installation Name: AVIONICS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	158 / 2.140	32 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	190 / 2.640
FY 2015	- / -	- / -	32 / 0.160	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.160
FY 2016	- / -	- / -	- / 1.275	30 / -	- / -	30 / -	- / -	- / -	- / -	- / -	- / -	30 / 1.275
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	158 / 2.140	32 / 0.500	32 / 1.435	30 / -	- / -	30 / -	- / -	- / -	- / -	- / -	- / -	252 / 4.075

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	158	8	8	8	8	8	8	8	8	8	8	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	158	8	8	8	8	8	8	8	8	8	8	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation (Organic): Archived ECPs - Not Installed **Installation Quantity:** 30

Footnotes:
 (2) Installation in FY 2017 is funded using FY 2016 funding due to the final year of appropriation.
 (3) Emergent Safety requirements line includes funds for aircraft modifications related to safety/national security interests mandatory for the aircraft to reach its full service life.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0511 / EA-6 Series	Modification Number / Title: 2 / ICAP III (001-01)

- ⁽⁴⁾ Fleet Readiness Center South East support for ICAP III Block 7 Kits (USB/ENTR, MATT Replacement) procurement, assembly, and management.
- ⁽⁵⁾ Fleet Readiness Center South East support to integrate ICAP III Block 7 USB/ENTR as replacement for MATT to retain intelligence broadcast reception capability in the EA-6B.
- ⁽⁶⁾ Other Support includes field activity and depot support required to manage emergent aircraft safety modifications.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0511 / EA-6 Series	Modification Number / Title: 3 / INACTIVE OSIPS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,719.276	-	-	-	-	-	-	-	-	-	-	1,719.276
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	1,719.276	-	-	-	-	-	-	-	-	-	-	1,719.276
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1,719.276	-	-	-	-	-	-	-	-	-	-	1,719.276
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0511 / EA-6 Series **Modification Number / Title:** 3 / INACTIVE OSIPS

Models of Systems Affected: EA-6 SERIES **Modification Type:** RELIABILITY / MISSION CAPABILITY **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> INACTIVE OSIPS												
A Kits												
Recurring												
1.1.1) INACTIVE OSIPS - Organic	- / 1,719.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,719.276
<i>Subtotal: Recurring</i>	- / 1,719.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,719.276
<i>Subtotal: INACTIVE OSIPS</i>	- / 1,719.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,719.276
<i>Subtotal: Procurement, All Modification Items</i>	- / 1,719.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,719.276
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	1,719.276	-	-	-	-	-	-	-	-	-	-	1,719.276

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0511 / EA-6 Series	Modification Number / Title: 3 / INACTIVE OSIPS
Modification Item 1 of 1: INACTIVE OSIPS		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0513 / AEA Systems
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	199.078	44.768	36.233	51.900	-	51.900	52.818	51.878	58.282	70.078	315.316	880.351
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	199.078	44.768	36.233	51.900	-	51.900	52.818	51.878	58.282	70.078	315.316	880.351
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	199.078	44.768	36.233	51.900	-	51.900	52.818	51.878	58.282	70.078	315.316	880.351

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in AEA SYSTEMS by \$2.197M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

This line item funds modifications to Airborne Electronic Attack (AEA) products used on multiple platforms. Modifications budgeted and programmed include: procurement and enhancement of Low Band Transmitter Antenna Group inventory, AN/ALQ-99 Tactical Jamming System upgrades and related sustainability, capability, and viability modifications. AEA will support procurement of new technologies and equipment as needed to combat emerging electronic warfare technology and systems.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0513 / AEA Systems

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11) (RELIABILITY / MISSION CAPABILITY)			- / 186.678	- / 44.768	- / 36.233	- / 51.900	- / -	- / 51.900
P-3a	2 / INACTIVE OSIPS (RELIABILITY / MISSION CAPABILITY)			- / 12.400	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 199.078	- / 44.768	- / 36.233	- / 51.900	- / -	- / 51.900

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11) (RELIABILITY / MISSION CAPABILITY)			- / 52.818	- / 51.878	- / 58.282	- / 70.078	- / 315.316	- / 867.951
P-3a	2 / INACTIVE OSIPS (RELIABILITY / MISSION CAPABILITY)			- / -	- / -	- / -	- / -	- / -	- / 12.400
P-40	Total Gross/Weapon System Cost			- / 52.818	- / 51.878	- / 58.282	- / 70.078	- / 315.316	- / 880.351

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The Department of the Navy has been tasked with accomplishing the Nation's Airborne Electronic Attack (AEA) mission in various theaters of operation over the last few decades. The AEA capability fielded by the Navy on the EA-6B Prowler has been a high demand, low density asset. The Navy and Marine Corps are transitioning away from the EA-6B Prowler aircraft; the Navy has transitioned to the EA-18G Growler aircraft and the Marine Corps is transitioning to an organic capability utilizing electronic warfare payloads flown on Marine Corps aircraft. Stable investment in AEA systems will ensure continued availability of AEA capability to meet warfighter demand. Investment in the ALQ-99 Tactical Jamming System will ensure continued system availability until Next Generation Jammer Full Operational Capability.

Airborne Electronic Attack (AEA) System procurements and related efforts are required to combat emerging electronic warfare technology and systems. Investment in AEA System efforts will ensure that sufficient AEA capability is available to meet warfighter requirements.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0513 / AEA Systems				Modification Number / Title: 1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	186.678	44.768	36.233	51.900	-	51.900	52.818	51.878	58.282	70.078	315.316	867.951
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	186.678	44.768	36.233	51.900	-	51.900	52.818	51.878	58.282	70.078	315.316	867.951
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	186.678	44.768	36.233	51.900	-	51.900	52.818	51.878	58.282	70.078	315.316	867.951
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The ALQ-99 requirement is directly driven by the EA-18G and EA-6B requirement and inventory numbers.

This Operational and Safety Improvement Program covers system modifications required to improve ALQ-99 reliability, maintainability, availability, resolve obsolescence issues, and correct deficiencies found in testing or in the field. Engineering changes are needed to enhance mission capability and integration of evolving Electronic Warfare systems to address increased mission requirements and emerging threats in support of EA-6B and EA-18G aircraft.

The out of production transmitter inventory is static and is being stretched due to increasing electronic warfare aircraft numbers and mission requirements. The ALQ-99 Tactical Jamming System (TJS) consists of six transmitters that are mission configurable depending on target threat. Reconstitution of reclaimed United States Air Force (USAF) EF-111 Band 4 through 8 transmitters to United States Navy (USN) configuration will alleviate significant jammer inventory shortfalls for EA-6B and EA-18G platforms.

INSTALLATION EQUIPMENT N/R: ALQ-99 TJS obsolescence mitigation efforts, capability enhancements and reliability enhancements require non-recurring engineering for ALQ-99 TJS components such as the Hardback, the Universal Exciter Upgrade, Ram Air Turbine Generator (RATGEN), Low Band Transmitter Antenna Group (LBT AG), Band 4, Band 5/6, Band 7, Band 8 and Band 9/10 Transmitters. Efforts planned for FY 2017 include engineering and design work for a modified ALQ-99 Ram Air Turbine Generator (RATGEN) with production commencing in FY 2019 and the consolidation of the Low Band Transmitter and Band 4 Transmitter into a single form factor with production commencing in FY 2019. Additionally, funds will provide for the re-engineering of depot support equipment in order to resolve ALQ-99 readiness degraders.

SUPPORT EQUIPMENT: Introduction of new/modified ALQ-99 pod equipment requires new/modified organizational, intermediate, and depot level support equipment; such as modifications and additions to the ALQ-99 pod test set to support LBT AG and modifications to the High Power Device Test Set to extend frequency coverage to test Band 9/10 transmitters. Required changes to existing support equipment will improve reliability, maintainability, availability, address obsolescence issues, and correct deficiencies found in testing or in the field.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Milestone III was achieved in April 2008 and a Full Rate Production contract was awarded June 2008. In response to the increasing force protection requirement, an Early Operational Capability for LBT was met in August 2006.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0513 / AEA Systems					Modification Number / Title: 1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11)			
Models of Systems Affected: MULTIPLE PLATFORMS				Modification Type: RELIABILITY / MISSION CAPABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Airborne Electronic Attack (AEA) Systems (OSIP 007-11)</i>													
B Kits													
Recurring													
2.1.1) RADOMES - Organic ⁽¹⁾	76 / 9.911	25 / 3.439	22 / 3.087	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	123 / 16.437	
2.1.2) TRANSMITTERS - Organic ⁽²⁾	4 / 4.800	6 / 7.337	2 / 2.940	15 / 19.410	- / -	15 / 19.410	16 / 21.120	10 / 13.460	8 / 10.984	4 / 5.600	- / -	65 / 85.651	
2.1.3) HARDBACK - Organic	- / -	20 / 8.152	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 8.152	
2.1.5) RAM AIR TURBINE GENERATOR MODIFICATION KIT - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 7.280	50 / 12.750	50 / 13.000	100 / 27.000	228 / 60.030	
2.1.6) LOW BAND TRANSMITTER CONSOLIDATION - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 5.750	26 / 15.080	60 / 34.680	180 / 108.000	276 / 163.510	
2.1.7) Archived Mods - Organic	84 / 110.140	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	84 / 110.140	
Subtotal: Recurring	- / 124.851	- / 18.928	- / 6.027	- / 19.410	- / -	- / 19.410	- / 21.120	- / 26.490	- / 38.814	- / 53.280	- / 135.000	- / 443.920	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽³⁾	- / 24.970	- / 17.058	- / 21.647	- / 23.082	- / -	- / 23.082	- / 22.195	- / 15.717	- / 10.091	- / 7.685	- / 79.588	- / 222.033	
Subtotal: Non-Recurring	- / 24.970	- / 17.058	- / 21.647	- / 23.082	- / -	- / 23.082	- / 22.195	- / 15.717	- / 10.091	- / 7.685	- / 79.588	- / 222.033	
Subtotal: Airborne Electronic Attack (AEA) Systems (OSIP 007-11)	164 / 149.821	51 / 35.986	24 / 27.674	15 / 42.492	- / -	15 / 42.492	16 / 43.315	48 / 42.207	84 / 48.905	114 / 60.965	280 / 214.588	796 / 665.953	
Subtotal: Procurement, All Modification Items	- / 149.821	- / 35.986	- / 27.674	- / 42.492	- / -	- / 42.492	- / 43.315	- / 42.207	- / 48.905	- / 60.965	- / 214.588	- / 665.953	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 8.937	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.937	
3.2) Data ⁽⁴⁾	- / 0.143	- / 0.079	- / 0.080	- / 0.082	- / -	- / 0.082	- / 0.083	- / 0.084	- / 0.086	- / 0.088	- / 0.892	- / 1.617	
3.4) Support Equipment	- / 12.378	- / 3.692	- / 3.868	- / 3.727	- / -	- / 3.727	- / 3.798	- / 3.874	- / 3.474	- / 3.102	- / 36.811	- / 74.724	
3.5) ILS ⁽⁵⁾	- / 11.997	- / 3.323	- / 3.389	- / 3.344	- / -	- / 3.344	- / 3.410	- / 3.479	- / 3.549	- / 3.620	- / 36.811	- / 72.922	
3.6) Other Support ⁽⁶⁾	- / 3.402	- / 1.688	- / 1.222	- / 2.255	- / -	- / 2.255	- / 2.212	- / 2.234	- / 2.268	- / 2.303	- / 26.214	- / 43.798	
Subtotal: Support	- / 36.857	- / 8.782	- / 8.559	- / 9.408	- / -	- / 9.408	- / 9.503	- / 9.671	- / 9.377	- / 9.113	- / 100.728	- / 201.998	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11)

Models of Systems Affected: MULTIPLE PLATFORMS	Modification Type: RELIABILITY / MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total Cost (Procurement + Support + Installation)	186.678	44.768	36.233	51.900	-	51.900	52.818	51.878	58.282	70.078	315.316	867.951

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11)

Modification Item 1 of 1: Airborne Electronic Attack (AEA) Systems (OSIP 007-11)

Installation Information

Method of Implementation (Organic): RADOMES	Installation Quantity: 123
Method of Implementation (Organic): TRANSMITTERS - Not Installed	Installation Quantity: 65
Method of Implementation (Organic): HARDBACK - Not Installed	Installation Quantity: 20
Method of Implementation (Organic): RAM AIR TURBINE GENERATOR MODIFICATION KIT - Not Installed	Installation Quantity: 228
Method of Implementation (Organic): LOW BAND TRANSMITTER CONSOLIDATION - Not Installed	Installation Quantity: 276
Method of Implementation (Organic): Archived Mods	Installation Quantity: 84

Footnotes:

- (1) Radome unit cost growth in excess of OSD approved indices in FY 2016 is due to rounding.
- (2) Transmitter unit cost growth in excess of approved OSD inflation indices in FY 2016 is due to decreased procurement quantities. Cost growth in excess of approved OSD inflation indices in FY 2020 is due to rounding.
- (3) Installation Equipment N/R fluctuates due to phasing of various engineering efforts. Cost growth in excess of approved OSD inflation indices in FY 2017 is due to phasing of the Ram Air Turbine Generator Modification effort, as well as additional funding provided for the Low Band Transmitter Consolidation.
- (4) Data cost growth in excess of approved OSD inflation indices is due to rounding.
- (5) ILS cost growth in excess of approved OSD indices in FY 2015 is caused by increased requirements due to Band 4 and Band 5/6 obsolescence mitigation. ILS cost growth in excess of approved OSD indices in FY 2019 and FY 2020 are caused by rounding.
- (6) FY 2016 total for Other Support includes \$1.000M reduction and \$0.500M from Congressional Add for Low Band Transmitter Consolidation. Other Support cost growth in excess of approved OSD inflation indices in FY 2017 is due to addition of Low Band Transmitter Consolidation program.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 2 / INACTIVE OSIPS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	12.400	-	-	-	-	-	-	-	-	-	-	12.400
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	12.400	-	-	-	-	-	-	-	-	-	-	12.400
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	12.400	-	-	-	-	-	-	-	-	-	-	12.400
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0513 / AEA Systems					Modification Number / Title: 2 / INACTIVE OSIPS			
Models of Systems Affected: MULTIPLE PLATFORMS					Modification Type: RELIABILITY / MISSION CAPABILITY					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> INACTIVE OSIPS													
A Kits													
Recurring													
1.1.1) INACTIVE OSIPS - Organic	- / 12.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.400	
<i>Subtotal: Recurring</i>	- / 12.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.400	
<i>Subtotal: INACTIVE OSIPS</i>	- / 12.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.400	
<i>Subtotal: Procurement, All Modification Items</i>	- / 12.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.400	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	12.400	-	-	-	-	-	-	-	-	-	-	12.400	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 2 / INACTIVE OSIPS
Modification Item 1 of 1: INACTIVE OSIPS		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0514 / AV-8 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 530	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,211.072	54.066	78.128	60.818	-	60.818	38.953	37.751	36.911	36.449	135.472	1,689.620
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,211.072	54.066	78.128	60.818	-	60.818	38.953	37.751	36.911	36.449	135.472	1,689.620
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,211.072	54.066	78.128	60.818	-	60.818	38.953	37.751	36.911	36.449	135.472	1,689.620

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION:

This line item funds modifications to T/AV-8B aircraft. The AV-8B is a single engine, single crew member (two crew members for the trainer) aircraft capable of vertical/short take-off and landing operations. The AV-8B meets the Marine Corps requirements for a light attack aircraft to provide responsive offensive air power that can operate from ships and austere forward bases in direct support of ground forces. The overall goal of the modifications budgeted in FY 2016 and FY 2017 is to continue incorporation of Obsolescence Replacement/Readiness Management Plan systems; electrical and structural changes; upgrade air-to-air weapon system employment and integration components; inventory sustainment and upgrade efforts to offset obsolescence and attrition; incorporation of Litening Pod upgrades; incorporation of AV-8B F402-RR-408 engine safety and operational changes and incorporation of a digitally interoperable Link 16 capability. The FY16 OCO will continue funding Expeditionary Litening Pod upgrades and software/firmware upgrade validation, and will procure additional Airborne VMF Terminals.

The AV-8B active inventory (June 2015) consists of 4 major configurations:

- 16 Two-Seat T/AV-8B Aircraft
- 1 Day Attack Upgrade Aircraft
- 34 Night Attack Aircraft
- 79 RADAR Remanufacture Aircraft

Retrofit quantities of each Engineering Change Proposal (ECP) vary by aircraft configuration type & inventory when the change was introduced into production. Retrofit quantities of each ECP also vary depending on whether the ECP applies to the airframe or an individual Weapons Replaceable Assembly. Non-recurring Engineering (NRE) varies from year to year based on complexity of ECPs being engineered for implementation in a given year. Publications and ILS also vary from year to year based on complexity of logistics elements and number of publications required to be updated for each individual ECP.

NOTE:

Service Life - 2026. One day Attack Aircraft Stricken in FY15. One Radar aircraft loss in FY15.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0514 / AV-8 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 530 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AV-8B LITENING POD (OSIP 023-00) (Upgrade)			- / 529.946	- / 30.247	- / 51.382	- / 4.015	- / -	- / 4.015
P-3a	2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04) (Upgrade)			- / 52.079	- / 4.066	- / 4.505	- / 3.741	- / -	- / 3.741
P-3a	3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06) (TBD)			- / 147.254	- / 19.753	- / 18.941	- / 29.562	- / -	- / 29.562
P-3a	4 / DIGITAL INTEROPERABILITY (OSIP 014-16) (Upgrade)			- / 0.000	- / -	- / 3.300	- / 23.500	- / -	- / 23.500
P-3a	5 / INACTIVE OSIPS (TBD)			- / 481.793	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 1,211.072	- / 54.066	- / 78.128	- / 60.818	- / -	- / 60.818

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AV-8B LITENING POD (OSIP 023-00) (Upgrade)			- / 16.023	- / 16.482	- / 16.790	- / 17.135	- / 79.197	- / 761.217
P-3a	2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04) (Upgrade)			- / 3.818	- / 3.858	- / 3.392	- / 3.706	- / 15.200	- / 94.365
P-3a	3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06) (TBD)			- / 14.512	- / 14.711	- / 15.529	- / 15.608	- / 41.075	- / 316.945
P-3a	4 / DIGITAL INTEROPERABILITY (OSIP 014-16) (Upgrade)			- / 4.600	- / 2.700	- / 1.200	- / -	- / -	- / 35.300
P-3a	5 / INACTIVE OSIPS (TBD)			- / -	- / -	- / -	- / -	- / -	- / 481.793
P-40	Total Gross/Weapon System Cost			- / 38.953	- / 37.751	- / 36.911	- / 36.449	- / 135.472	- / 1,689.620

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 BASELINE JUSTIFICATION:
 Non-Recurring Engineering/Data (baseline/OCO) fluctuates per fiscal year due to timing and complexity of ECP's and/or software upgrades, as a different mix / phase of these efforts are in work each year. FY16 OCO includes Expeditionary LITENING Pod for AV-8B, F/A-18A-D, and EA-6B (\$33.829) and Airborne VMF Terminal (AVT) (\$4.680M).

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Exhibit P-3a, Individual Modification: PB 2017 Navy								Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series				Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	529.946	30.247	51.382	4.015	-	4.015	16.023	16.482	16.790	17.135	79.197	761.217
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	529.946	30.247	51.382	4.015	-	4.015	16.023	16.482	16.790	17.135	79.197	761.217
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	529.946	30.247	51.382	4.015	-	4.015	16.023	16.482	16.790	17.135	79.197	761.217

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AV-8B LITENING POD (OSIP 023-00)

DESCRIPTION/JUSTIFICATION:

The system integrates and procures an external targeting pod that includes an infrared and low-light television targeting device capable of detecting, classifying, auto-tracking, and designating air-to-surface targets. The system will support first-pass autonomous delivery of conventional, precision guided and accurate munitions to include Laser Maverick, Guided Bomb Unit (GBU)-12, GBU-16, and Joint Direct Attack Munitions. The system will provide targeting capabilities for the AV-8B Fleet of Night Attack and Radar aircraft through the end of its service life. The AV-8B Program Office is the single management authority, procuring, integrating, and managing the LITENING Pod program on all United States Marine Corps (USMC) (AV-8B/F/A-18/EA-6B) platforms in order to maintain commonality within the USMC Tactical Air (TACAIR) for LITENING capabilities. Under this structure, the G4 LITENING pod is being procured and integrated on the AV-8B, F/A-18, and EA-6B platforms via aircraft-specific Operational Flight Programs (OFPs). The G4 upgrade vastly improves combat capabilities through increased coverage, expanded Improvised Explosive Device detection capability, and expanding range of video downlink to support ground units equipped with Remote Operated Video Enhanced Receiver (ROVER) and Video Scout ground stations. Theater Joint Tactical Air Requests are specifically requesting LITENING Datalink capabilities for Intelligence, Surveillance, and Reconnaissance. The upgrade doubles the Forward Looking Infrared resolution, and adds Laser Target Image Processing for enhanced detection and targeting capability; increasing the survivability and effectiveness of ground forces. Further upgrades to the Common USMC OFP such as COFP V3 and V4 will be integrated in follow-on AV-8B, F/A-18, and EA-6B platform OFPs. Future upgrades are planned to the LITENING Datalink. The Advanced Tactical Datalink (ATDL) will permit collaborative and networked payloads to communicate with each other and determine appropriate action against multiple targets simultaneously. It will enable usage of multiple data waveforms for information exchange in both air-to-air and air-to-ground environments among an increasing number of contributors, providing the ability to link ground forces into a digital interoperable, robust, and flexible network architecture. The ATDL will serve as a conduit between disparate networks and waveforms and off-board relative and pertinent data to maneuvering forces in real time. Support equipment will be supported and provided to include portable power units and Fleet loading / trouble shooting support equipment. This software upgrade will integrate tracking Algorithm updates providing more reliable tracking of moving targets, improvements to the passive ranging, improvements to Pod focus and mode selection process, and image overlay mode. FY16 funding will continue Block 1 to G4 upgrades, continue Common OFP V3 (COFP V3) software upgrade to include integration into platform OFPs such as H6.2 and 27C, continue firmware validation, associated logistics elements, and will begin funding Common OFP V4 (COFP V4) software upgrade. COFP V3 integrates tracking upgrades. COFP V4 will integrate new data sets to the aircraft mission and weapon systems computers, and will integrate Pod Datalink encryption. Common OFP costs will fluctuate between years due to software / firmware upgrade complexity for specific S/W upgrades, as well as differences in scope between early contractor efforts for Contractor software and following Organic efforts for aircraft software coding and integration. FY16 OCO funding will continue funding of Block 1 to G4 upgrades and perform software/firmware validation and associated logistics. FY17 funding will continue funding COFP V4 software upgrade to include integration into platform OFPs such as H7.0 and 29C, will begin non-recurring engineering effort of the ATDL, perform software/firmware validation, and associated logistics elements for all three USMC TACAIR Expeditionary platforms that are currently supporting OCO combat operations, and all Commandant of the Marine Corps directed pre-deployment training requirements. Conduct mitigations for parts obsolescence in the Litening pod and associated training and support equipment.

Note: Support cost, to include data, training equipment, support equipment, ILS, and Other Support efforts are required in FY17 as the program coordinates and takes delivery of Block 1 to G4 Pod upgrades procured in FY16, updates publications, support equipment, training systems, and ILS elements to support the release of Common OFP V3, and as the efforts move forward on Common OFP V4.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)
<p>The LITENING Targeting Pod is a non-developmental item and has been in full production for several years. FY16 baseline funding will continue the Block 1 to G4 configuration upgrade and will fund Common OFP V3 (to include integration into platform OFPs) and V4 software modifications, and will perform software/firmware validation and associated logistics elements. FY16 OCO will continue the Block 1 to G4 configuration upgrade and will perform software/firmware validation. FY17 baseline funding will continue Common OFP V4 upgrade efforts to include integration into platform OFPs, will begin engineering effort associated with ATDL upgrade, and will perform software/firmware validation and associated logistics elements.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)			
Models of Systems Affected: AV-8B Night Attack & Radar/Reman					Modification Type: Upgrade					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> AV-8B LITENING POD (OSIP 023-00)													
B Kits													
Recurring													
2.1.1) Pod Upgrade Kits (BLOCK 1 to GEN4) - Organic	18 / 24.809	14 / 22.563	7 / 10.520	- / -	- / -	- / -	4 / 7.310	4 / 7.456	- / -	- / -	2 / 3.878	49 / 76.536	
2.1.2) Pod Upgrade Kits (BLOCK 1 to GEN4) OCO - Organic	47 / 64.168	- / -	21 / 32.957	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / 97.125	
2.1.3) Common OFF V3 - Organic	- / -	- / 3.891	- / 1.318	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.209	
2.1.4) Common OFF V4 - Organic ⁽¹⁾	- / -	- / -	- / 2.302	- / 1.699	- / -	- / 1.699	- / 4.392	- / 0.415	- / -	- / -	- / -	- / 8.808	
2.1.5) Advanced Tactical Datalink (ATDL) WRA - Organic ⁽²⁾	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.440	12 / 5.386	29 / 13.320	31 / 14.523	130 / 60.701	203 / 94.370	
2.1.6) Archived ECPs - Organic	204 / 314.464	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	204 / 314.464	
Subtotal: Recurring	- / 403.441	- / 26.454	- / 47.097	- / 1.699	- / -	- / 1.699	- / 12.142	- / 13.257	- / 13.320	- / 14.523	- / 64.579	- / 596.512	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽³⁾	- / 9.953	- / 0.734	- / 1.320	- / 1.043	- / -	- / 1.043	- / 2.013	- / 1.630	- / 1.363	- / 1.229	- / 6.665	- / 25.950	
2.2.2) Installation Equipment N/R (OCO) - Organic	- / 27.582	- / -	- / 0.847	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.429	
Subtotal: Non-Recurring	- / 37.535	- / 0.734	- / 2.167	- / 1.043	- / -	- / 1.043	- / 2.013	- / 1.630	- / 1.363	- / 1.229	- / 6.665	- / 54.379	
Subtotal: AV-8B LITENING POD (OSIP 023-00)	269 / 440.976	14 / 27.188	28 / 49.264	- / 2.742	- / -	- / 2.742	5 / 14.155	16 / 14.887	29 / 14.683	31 / 15.752	132 / 71.244	524 / 650.891	
Subtotal: Procurement, All Modification Items	- / 440.976	- / 27.188	- / 49.264	- / 2.742	- / -	- / 2.742	- / 14.155	- / 14.887	- / 14.683	- / 15.752	- / 71.244	- / 650.891	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 1.748	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.748	
3.2) Data ⁽⁴⁾	- / 0.084	- / 0.180	- / -	- / 0.025	- / -	- / 0.025	- / 0.051	- / 0.052	- / 0.052	- / 0.053	- / 1.005	- / 1.502	
3.3) Data (OCO)	- / 1.236	- / -	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.261	
3.4) Training Equipment ⁽⁵⁾	- / 7.635	- / 1.357	- / 0.335	- / 0.100	- / -	- / 0.100	- / 0.638	- / 0.342	- / 0.100	- / 0.101	- / 0.920	- / 11.528	
3.5) Training Equipment (OCO)	- / 11.704	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.704	
3.6) Support Equipment ⁽⁶⁾	111 / 2.136	- / 0.088	- / 0.081	- / 0.081	- / -	- / 0.081	- / 0.082	- / 0.084	- / 0.825	- / 0.086	- / 0.433	111 / 3.896	
3.7) Support Equipment (OCO)	- / 5.385	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.385	
3.8) ILS ⁽⁷⁾	- / 3.573	- / 0.101	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.026	- / 0.026	- / 0.026	- / 0.126	- / 3.953	
3.9) ILS (OCO)	- / 0.754	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.754	
3.10) Other Support ⁽⁸⁾	- / 50.491	- / 1.333	- / 1.652	- / 1.042	- / -	- / 1.042	- / 1.072	- / 1.091	- / 1.104	- / 1.117	- / 5.469	- / 64.371	
3.11) Other Support (OCO)	- / 4.224	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.224	

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0514 / AV-8 Series **Modification Number / Title:** 1 / AV-8B LITENING POD (OSIP 023-00)

Models of Systems Affected: AV-8B Night Attack & Radar/Reman **Modification Type:** Upgrade **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Support</i>	- / 88.970	- / 3.059	- / 2.118	- / 1.273	- / -	- / 1.273	- / 1.868	- / 1.595	- / 2.107	- / 1.383	- / 7.953	- / 110.326
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	529.946	30.247	51.382	4.015	-	4.015	16.023	16.482	16.790	17.135	79.197	761.217

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)
Modification Item 1 of 1: AV-8B LITENING POD (OSIP 023-00)		
Installation Information		
Method of Implementation (Organic): Pod Upgrade Kits (BLOCK 1 to GEN4)		Installation Quantity: 49
Method of Implementation (Organic): Pod Upgrade Kits (BLOCK 1 to GEN4) OCO		Installation Quantity: 68
Method of Implementation (Organic): Advanced Tactical Datalink (ATDL) WRA - Not Installed		Installation Quantity: 203
Method of Implementation (Organic): Archived ECPs		Installation Quantity: 204

Footnotes:

- (1) Common OFF V4: Planned implementation via aircraft platform ECP following completion of Common OFF V3. This software upgrade will be implemented in aircraft via platform ECPs for AV-8B, F/A-18, and EA-6B. Costs fluctuate from year to year due to varying costs of contractor efforts to write Pod software, and following multiple-year Government efforts to write aircraft side software to integrate with contractor Pod software. Increase from FY17 to FY18 due to plans to be in work on a contract for COFP V4 with Northrop Grumman, and in work at organic field activities integrating COFP V4 with AV-8B, F/A-18, and EA-6B platform OFPs. The integration effort increases in FY18 as this effort progresses. Quantity is not reflected as each platform will produce software that will be incorporated via ECP at the O-level in all aircraft capable of utilizing the LITENING pod.
- (2) Advanced Tactical Datalink (ATDL) WRA: Increase in quantity from FY18 through FY21 required to permit collaborative and networked payloads to communicate with each other and determine appropriate action against multiple targets simultaneously.
- (3) Installation Equipment N/R: NRE supports integration of COFP V3 and V4, as well as NRE for Advanced Tactical Datalink (ADTL). Firmware validations also performed under this line. NRE fluctuates from year to year based on the complexity of the effort undergoing NRE. Increase from FY17 to FY18 is due to an increased amount of non-recurring engineering required to integrate the Advanced Tactical Datalink (ATDL) in the LITENING Pod as utilized aboard the AV-8B and F/A-18. FY18 is the first year that one ATDL is procured, in preparation for higher rate production in FY19. This element decreases in FY19 as the ATDL goes into production. NRE funds in FY19-20 in NRE are also required to perform necessary validation of LITENING firmware updates with the AV-8B, F/A-18, and EA-6B.
- (4) Data: As the program coordinates and takes delivery of Block 1 to G4 Pod upgrades procured in FY16 to support the release of Common OFF V3, and as the efforts move forward on Common OFF V4 and ATDL, publication/data updates are required to occur. Increase from FY17 to FY18 is due to approaching fielding of Common OFF (COFP) V4 software, which will require additional publications to be updated on all platforms to reflect use of this software. FY19/20 funds for Data will be utilized to update publications for AV-8B and F/A-18 use of ATDL. Amounts fluctuate per fiscal year due to changes in publication efforts planned for each year. The pubs cost changes due to number, type, and complexity of software / firmware updates planned each year.
- (5) Training Equipment: Increase from FY17 to FY18 is due to expected contract award in FY18 for COFP V4 trainer upgrades, whereas FY17 funding is for the organic portion of this effort. Trainer funding is required in FY19/20/21 for COFP V4 and ATDL trainer updates. FY 15, 17, 18, 20 reflect NAWC TSD organic efforts for these upgrades. Costs fluctuate from year to year due to changing levels of effort required organically and by contracts to support COFP V3 and V4 as well as ATDL. As the effort progresses, the funds required fluctuate from year to year.
- (6) Support Equipment efforts are required as the program coordinates and takes delivery of Block 1 to G4 Pod upgrades procured in FY16 to support the release of Common OFF V3, and as the efforts move forward on Common OFF V4 and ATDL. Increase from FY19 to FY20 is due to requirement to upgrade support equipment utilized to playback LITENING video.
- (7) ILS efforts are required in FY17 as the program coordinates and takes delivery of Block 1 to G4 Pod upgrades procured in FY16 to support the release of Common OFF V3, and as the efforts move forward on Common OFF V4 and ATDL.
- (8) Other Support efforts are required as the program coordinates and takes delivery of Block 1 to G4 Pod upgrades procured in FY16 to support the release of Common OFF V3, and as the efforts move forward on Common OFF V4 and ATDL. Increase from FY17 to FY18 is due to higher level of effort expected to prepare for ATDL NRE and procurement.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series			Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	52.079	4.066	4.505	3.741	-	3.741	3.818	3.858	3.392	3.706	15.200	94.365
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	52.079	4.066	4.505	3.741	-	3.741	3.818	3.858	3.392	3.706	15.200	94.365
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	52.079	4.066	4.505	3.741	-	3.741	3.818	3.858	3.392	3.706	15.200	94.365
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)

DESCRIPTION/JUSTIFICATION:

The AV-8B is a single engine aircraft with unique capabilities. The Vertical/Short Take-off Landing environment is very unforgiving and allows no tolerance for engine problems. The Engine Life Management Program is a comprehensive program to increase safety of flight and operational readiness of the AV-8B F402-RR-408 Engine. Funding provided is to incorporate Engineering Change Proposals (ECP) to increase safety of flight and operational readiness of the F-402-RR-408 Engine.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Operational, Safety and Improvement Program 02-04 supports the Harrier AV-8B ELMP through Aircraft Procurement, Navy funding. Power Plant changes are required throughout the aircraft service life as the aircraft ages and operationally revealed deficiencies are discovered, researched, and solutions engineered. The Component Improvement Program, which is Research Development Test & Evaluation funded, provides for the development and demonstration of the engineered solutions to these deficiencies and Power Plant changes are initiated through the ECP process. The power plant program procures the necessary kits, installation, non-recurring engineering, peculiar support equipment, and technical data. The kits provided are for engine and propulsion related hardware to support the AV-8B F402-RR-408 engine such as Nozzle Guide Vanes, Pilot Lever Angle Units, Fuel Control Units, Generator Turbine Starters and accessory components, rotors and vanes for compressor sections, power turbines, combustion sections, exhaust ducts, engine monitor systems, and blade and vane coatings and foils to improve Foreign Object Damage tolerance. The purpose of the program is to increase safety of flight and operational readiness of the AV-8B F402-RR-408 Engine. The ELMP is comprised of several Engineering Project Description (EPD) investigations and Engine Endurance Tests. The EPD investigations and Endurance Tests provide data points for existing Fleet problems and predict future engineering issues of the F402-RR-408 propulsion system. ECPs resulting from Engineering Investigations and Endurance Test results will be researched. Their development will be formalized under the development program and incorporated into the F402-RR-408 via OSIP 02-04. Integrated Logistics Support funds logistics support efforts in coordination with the AV-8B international partners.

Current Active Modifications:

- ECP - 1095 GTS Brake Seal
- ECP - 3852 R1 LPC 2/3 Vanes Hard Coating
- ECP - 3843 SAND TOLERANCE
- ECP - TBD EVICS Interrogator/Obsolescence
- ECP - TBD MK107 Conversion to 408B

The following TBD ECP's are revisions to improve durability and increase component life and or introduce new parts due to obsolescence.

Future Modifications:

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)
<p>ECP - 0589 GTS Magnetic Chip Detector ECP - 1094 GTS Shutoff Dump Valve Lever ECP - 3705 AYC1375 Comb MRA 2 Piece Bottom Heat Shield ECP - 3629 Revised Oil Breather Vent Pipe ECP - 3641C1 #1 Bearing ECP - 3647 HP8 Pipe Clamps ECP - 3739 HPT1 NGV Hardcoating ECP - 3743 #4 Bearing ECP - 3800 AYC 1374 QEC 3 ECP - 3806 Rear Nozzle Trimmers ECP - 3848 R2 HPC Casing Manifold Bridge Pipe ECP - 3854 R2 LPC3 Vane Sealing Strip ECP - 3868R1 Spur Gear Lubrication ECP - TBD EVICS Interrogator/Obsolescence ECP - 3897 R1 HPT 1&2 ECP - 3898 Replacement Gears, GB ECP - 3904 Encapsulated Revision ECP - 3907 Gears External to Engine GB ECP - 3909 Fuel Manifold Drainpipe Redesign ECP - 3916 Repair Parts ECP - 3918 LPC1 Vane Thick Trailing Edge ECP - 3917 LPC2 Damper ECP - 3919 LPC1 Redesign ECP - 3922 Revised Oil Filters ECP - 3923 LPC1 Blade with LPB to Blade Root ECP - 3926 #4 Bearing Housing & Oil Drain Tank Redesign ECP - 3927 Improved HMU Calibration Screw Retention ECP - 3928 FMU Diaphragm Replacement ECP - 6649-10-004 T-26 MK-4 GTS/APU Obsolescence (LKE) ECP - TBD JETI T-4 T-7 Probes ECP - TBD Air Turbine Starter Obsolescence ECP - TBD #2 Bearing Redesign ECP - TBD Control System Obsolescence ECP - TBD Core Engine Obsolescence ECP - TBD CCOC Thermocouples ECP - TBD DCU RedesignECP - TBD DECU Obsolescence ECP - TBD DECU Phase SoftwareECP - TBD Engine Adapter Reliability Improvements ECP - TBD EVICS HMU Pilot Valve ECP - TBD EVICS IDEC POR Correction ECP - TBD Final Drive End ECP - TBD FMU Obsolescence ECP ECP - TBD HPC Vane Modification ECP - TBD In-Service Oil Analysis ECP - TBD GTS Main Gear Box Housing Obsolescence ECP - TBD GTS Flame Tube Assembly Improvement ECP - TBD Compressor Turbine Nozzle & Spigot Ring Assembly Improvement</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)
<p>ECP - TBD Power Turbine Rotor Redesign- Improvement ECP - TBD LPB Improvements ECP - TBD LPC 1 Blade Dovetail Coatings LPB ECP - TBD LPC 1 Blade FOD Tolerance LPB ECP - TBD LPT1 Liner ECP - TBD New Break-in Box With Expanded Capability ECP - TBD New Starter Contactor - Improved Reliability ECP - TBD Nozzle and Spigot Ring Assembly Reliability Improvement ECP - TBD Obsolescence Protection Unit ECP - TBD Obsolescence Starter Contactor ECP - TBD Obsolescence Starter Motor ECP - TBD PLAU Shut Off Valve ECP - TBD Power Turbine Rotor Blade Failure Fix ECP - TBD SET 2006-F402-01 LPB Vanes ECP - TBD Thrust Push Improvements ECP - TBD 1st Planet Gear Redesign ECP - TBD Compressor Turbine Nozzle Redesign</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)			
Models of Systems Affected: AV-8B Night Attack & Radar/Reman					Modification Type: Upgrade					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
Modification Item 1 of 1: ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)													
A Kits													
Recurring													
1.1.1) ECP-1095 GTS Brake Seal - Organic ⁽⁹⁾	- / -	40 / 0.577	41 / 0.600	43 / 0.630	- / -	43 / 0.630	43 / 0.630	43 / 0.680	8 / 0.120	8 / 0.120	31 / 0.405	257 / 3.762	
1.1.2) ECP TBD EVICS Interrogator / Obsolescence - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	194 / 6.000	194 / 6.000	
1.1.3) ECP 3852 R1 LPC 2/3 Vanes Hard Coating - Organic	- / -	3 / 0.300	3 / 0.300	3 / 0.300	- / -	3 / 0.300	- / -	- / -	- / -	- / -	3 / 0.155	12 / 1.055	
1.1.4) ECP TBD LPC1 Redesign - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.300	3 / 0.300	
1.1.5) ECP TBD #2 Bearing Redesign - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.300	3 / 0.300	
1.1.6) ECP TBD CCOC Thermocouples - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.300	3 / 0.300	
1.1.7) ECP TBD FMU Obsolescence - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	192 / 3.000	192 / 3.000	
1.1.8) ECP TBD MK107 Conversion to 408B - Organic	- / -	1 / 0.528	1 / 0.534	1 / 0.536	- / -	1 / 0.536	1 / 0.538	1 / 0.540	1 / 0.550	1 / 0.561	- / -	7 / 3.787	
1.1.9) Archived ECPs - Organic	449 / 11.509	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	449 / 11.509	
Subtotal: Recurring	- / 11.509	- / 1.405	- / 1.434	- / 1.466	- / -	- / 1.466	- / 1.168	- / 1.220	- / 0.670	- / 0.681	- / 10.460	- / 30.013	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 0.104	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.104	
Subtotal: Non-Recurring	- / 0.104	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.104	
B Kits													
Non-Recurring													
2.1.1) Installation Equipment N/R - Organic	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	
Subtotal: Non-Recurring	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	
Subtotal: ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)	449 / 12.013	44 / 1.405	45 / 1.434	47 / 1.466	- / -	47 / 1.466	44 / 1.168	44 / 1.220	9 / 0.670	9 / 0.681	429 / 10.460	1,120 / 30.517	
Subtotal: Procurement, All Modification Items	- / 12.013	- / 1.405	- / 1.434	- / 1.466	- / -	- / 1.466	- / 1.168	- / 1.220	- / 0.670	- / 0.681	- / 10.460	- / 30.517	
Support (All Modification Items)													
3.3) Data	- / 4.276	- / 0.460	- / 0.300	- / 0.300	- / -	- / 0.300	- / 0.300	- / 0.300	- / 0.300	- / 0.320	- / 1.417	- / 7.973	
3.4) Support Equipment	- / 14.971	- / 0.419	- / 0.407	- / 0.411	- / -	- / 0.411	- / 0.410	- / 0.516	- / 0.526	- / 0.557	- / 0.463	- / 18.680	
3.5) ILS ⁽¹⁰⁾	- / 15.492	- / 1.449	- / 2.054	- / 1.397	- / -	- / 1.397	- / 1.728	- / 1.604	- / 1.674	- / 1.906	- / 2.053	- / 29.357	
3.6) Other Support ⁽¹¹⁾	- / 4.627	- / 0.333	- / 0.310	- / 0.167	- / -	- / 0.167	- / 0.212	- / 0.218	- / 0.222	- / 0.242	- / 0.807	- / 7.138	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)

Models of Systems Affected: AV-8B Night Attack & Radar/Reman	Modification Type: Upgrade	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.8) Archived Support Costs	- / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.700
<i>Subtotal: Support</i>	- / 40.066	- / 2.661	- / 3.071	- / 2.275	- / -	- / 2.275	- / 2.650	- / 2.638	- / 2.722	- / 3.025	- / 4.740	- / 63.848
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	52.079	4.066	4.505	3.741	-	3.741	3.818	3.858	3.392	3.706	15.200	94.365

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)

Modification Item 1 of 1: ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)

Installation Information

Method of Implementation (Organic): ECP-1095 GTS Brake Seal - Not Installed	Installation Quantity: 257
Method of Implementation (Organic): ECP TBD EVICS Interrogator / Obsolescence	Installation Quantity: 194
Method of Implementation (Organic): ECP 3852 R1 LPC 2/3 Vanes Hard Coating - Not Installed	Installation Quantity: 12
Method of Implementation (Organic): ECP TBD LPC1 Redesign - Not Installed	Installation Quantity: 3
Method of Implementation (Organic): ECP TBD #2 Bearing Redesign - Not Installed	Installation Quantity: 3
Method of Implementation (Organic): ECP TBD CCOC Thermocouples - Not Installed	Installation Quantity: 3
Method of Implementation (Organic): ECP TBD FMU Obsolescence - Not Installed	Installation Quantity: 192
Method of Implementation (Organic): ECP TBD MK107 Conversion to 408B - Not Installed	Installation Quantity: 7
Method of Implementation (Organic): Archived ECPs - Not Installed	Installation Quantity: 449

Footnotes:

⁽⁹⁾ ECP-1095 GTS Brake Seal: Kits are O-level installs. Fluctuations in unit cost and kit procurements from year to year due to number of aircraft expected to be out of service for planned maintenance during which concurrent mods can occur.

⁽¹⁰⁾ ILS: FY16 Increase due to additional hours added to Rolls Royce during contract negotiations. ILS fluctuations from year to year due to increased ECP development and support at Rolls Royce in coordination with AV-8B International partners.

⁽¹¹⁾ Other Support increases in FY18-21 are due to NAWC rate changes.

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Exhibit P-3a, Individual Modification: PB 2017 Navy								Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series				Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	147.254	19.753	18.941	29.562	-	29.562	14.512	14.711	15.529	15.608	41.075	316.945
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	147.254	19.753	18.941	29.562	-	29.562	14.512	14.711	15.529	15.608	41.075	316.945
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	147.254	19.753	18.941	29.562	-	29.562	14.512	14.711	15.529	15.608	41.075	316.945
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION:

Obsolescence Replacement provides for maintaining the readiness of the AV-8B weapons system until its projected end of service, which is now 2026 or until replaced by short take-off and vertical landing (STOVL) operations F-35B. This requires the airframe and integrated systems to exceed planned service life and requires both systems modifications and obsolescence solutions. Funds will be utilized to identify, manage, process and incorporate Engineering Change Proposals (ECPs) and implement changes to sustain and improve AV-8B weapons system readiness including safety, mission availability, structural integrity, air-to-ground and air-to-air weapon system employment, stores expansion, and component (avionics/systems) reliability, maintainability, and obsolescence conditions, including peculiar support equipment, as they arise. This program may be required to provide emergent, timely remedial action for any aircraft system, component or structure. Due to Fleet Primary Aircraft Authorized inventory shortfalls, all depot level modification installations must be planned and programmed concurrent with Integrated Maintenance Plan (IMP)/Planned Maintenance Interval (PMI) scheduled depot overhaul events to minimize aircraft out-of-service periods, unless safety or aircraft availability require stand-alone installations, or depot lack of capacity requires contracted modification installations. Conduct efforts required to mitigate parts obsolescence, and ECPs to support equipment.

USMC Future force laydown plans incorporates elements of Marine Aviation, including AV-8Bs deployed in support of the Central Command area of responsibility (AOR) and Operation Freedom's Sentinel (OFS). AV-8Bs will deploy in support of OFS in support of regularly deploying Marine Expeditionary Units (MEU) and/or Special-Purpose Marine Air-Ground Task Forces (SPMAGTF). The upgrade to Digital Close Air Support capability, using the Airborne Variable Message Format Terminal (VMF) Terminal (AVT), is operationally required for use in theater in direct support of combat operations, by replacing the currently used Automatic Target Handoff System II (ATHS-II), which uses the obsolete Marine Tactical Standard (MTS) protocol. Use of the VMF protocol that will be enabled by the AVT will provide the AV-8B with a digitally interoperable solution for communication with the MAGTF, DOD and Joint Forces in OFS, enabling compliance with CENTCOM Air Tasking Orders for digital CAS tasking. As the AV-8B must currently rely on voice communication with other aircraft and ground units not utilizing MTS, VMF use as a replacement for MTS will reduce risk of fratricide and provide certainty of target selection. Utilization of the VMF protocol via the AVT will enable the platform to execute digital close air support mission tasking in support of the AV-8B primary mission of Close Air Support. Current and future contingency operations require urban target identification or target identification in close proximity to ground forces. AVT will improve target location and identification communication in these CAS taskings. FY16 \$4.68M OCO continues this effort by procuring additional AVT units and updating associated logistics elements.

FY17 Installation funding supports installs of the following modifications: Center Tank Structural Mods, Nose Landing Gear Steering Dowel Pin, Frame 41 Tail Plane Guide, Frame 43 Bushings, Frame 11 Structure Mod, Nose Landing Gear Down- Lock, Canopy Latch, Frame 29 Structure Mod, Station 1 & 7 Pylon Attachment Fitting and Outrigger Positive Indicator. Of these installations, Frame 11 is the most substantial in cost due to 4,000 labor hours to complete each installation after the aircraft has been disassembled for PMI.

FY16 - FY21 Qty profile updated based on Depot's current schedule for modification installation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)
<p>Non-recurring engineering and integrated logistic support (ILS) work continues for ECPs, procurements and installations for new and ongoing obsolescence and readiness requirements. Key efforts include Canopy Latch, Speed Brake , Center Tank Structural Modification, Frame 11, Frame 29, Frame 41, and Frame 43 safety, integrity and obsolescence, Brake Temperature and Outrigger Landing Gear Position Indicators safety incorporation, Pylon Attach Fittings safety and weapons compatibility and obsolescence, Utility Test Panel and Main Landing Gear Door Hand Operated Strut safety and reliability, integration and logistics elements required for use of Common Avionics Procured KY-58 obsolescence replacement, data/ILS updates for ECPs and support equipment procurements unique to the use of the BRU-70, and Display Computer. Various kit procurements and installations continue throughout the Future Years Defense Plan. FY16 OCO will complete the Airborne VMF Terminal procurements and fund associated trainer upgrades and logistics element updates. NRE will fluctuate due to mix and complexity of Readiness Management Plan ECPs being written and verified in each year. All ECPs do not require the same level of NRE.</p> <p>Current Active Modifications:</p> <ul style="list-style-type: none"> ECP-MDA-AV-8B-0323 Nose Landing Gear Steering Dowel Pin (NLG Steering) ECP-MDA-AV-8B-0331 Frame 11 ECP-MDA-AV-8B-0332 Canopy Latch ECP-MDA-AV-8B-0333 Nose Landing Gear Down Lock ECP-PMA257-2008-0004 Frame 43 Bushing ECP-PMA257-2008-0005 Frame 41 Tail Plane Guide ECP-PMA257-2010-0001 Radar Display Computer ECP-PMA257-2010-0002 Frame 29 Structure Mod ECP-PMA257-2010-0004R1 Single Card Programmer ECP-PMA257-2011-0001 Center Tank Structural Mod ECP-PMA257-2011-0002 Digital Video Recorder (DVR) ECP-PMA257-2013-0001 Airborne VMF Terminal (OCO) ECP-TBD Inboard Throttle Transverse Shaft ECP-TBD Utility Test Panel Upgrade ECP-TBD Radar Environmental Cooling System Filter Incorporation ECP-TBD Brake Temperature Monitoring System Incorporation ECP-TBD Heads Up Display (HUD) Combining Glass Obsolescence Resolution ECP-TBD Seat Caution Light Incorporation ECP-TBD Outrigger Positive Indicator ECP-TBD Main Landing Gear Hand Operated Strut ECP-TBD Main Landing Gear Strut Servicing Indicator Incorporation ECP-TBD Outboard Stations 1&7 Pylon Forward Attachment Fitting ECP-TBD Gun Shut-off Valve ECP-TBD Speed Brake ECP-TBD GR-9 Compatibility <p>Future Modifications:</p> <ul style="list-style-type: none"> ECP-TBD LAU-127 Launcher ECP-TBD Pitot Static Probe Reliability ECP-TBD Monolithic Landing Gear Doors ECP-TBD Canopy Transparency Material Improvement ECP-TBD Weapons Compatibility Stations 1&7 ECP-TBD Weapons Obsolescence ECP-TBD KY-58 Replacement (procured by Common Avionics) ECP-TBD TAV-8B Head Up Display (HUD) Camera 		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)
ECP-TBD FLIR Sensor Head Replacement		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)

Models of Systems Affected: [No Model Specified]	Modification Type: TBD	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: OBSOLESCENCE REPLACEMENT (OSIP 006-06)												
A Kits												
Recurring												
1.1.1) ECP-MDA-AV-8B-0282 Fuel Coupling P2 - NonOrganic	146 / 1.743	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	146 / 1.743
1.1.2) ECP-PMA257-2011-0001 Center Tank Structural Modification - NonOrganic ⁽¹²⁾	47 / 1.672	13 / 0.364	13 / 0.371	8 / 0.233	- / -	8 / 0.233	8 / 0.237	6 / 0.181	- / -	- / -	- / -	95 / 3.058
1.1.3) ECP-MDA-AV-8B-0323 Nose Landing Gear Steering Dowel Pin - NonOrganic	141 / 0.154	- / -	25 / 0.038	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	166 / 0.192
1.1.4) ECP-PMA257-2008-0005 Frame 41 Tail Plane Guide - NonOrganic	55 / 1.207	19 / 0.359	10 / 0.193	11 / 0.216	- / -	11 / 0.216	- / -	- / -	- / -	- / -	- / -	95 / 1.975
1.1.5) ECP PMA257-2008-0004 Frame 43 Bushings - NonOrganic ⁽¹³⁾	73 / 0.687	19 / 0.048	12 / 0.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	104 / 0.766
1.1.6) ECP-PMA257-2011-0003 Frame 11 - NonOrganic ⁽¹⁴⁾	6 / 0.336	15 / 0.661	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.997
1.1.7) ECP-MDA-0333-Nose Landing Gear Down Lock - NonOrganic	- / -	15 / 0.076	- / -	6 / 0.031	- / -	6 / 0.031	- / -	- / -	- / -	- / -	- / -	21 / 0.107
1.1.8) ECP-MDA-AV-8B-0332 Canopy Latch - NonOrganic ⁽¹⁵⁾	- / -	24 / 1.556	24 / 0.501	22 / 0.447	- / -	22 / 0.447	22 / 0.648	- / -	- / -	- / -	- / -	92 / 3.152
1.1.9) ECP-TBD LAU-127 Launcher - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 1.485	55 / 1.485
1.1.10) ECP-PMA257-2010-0002 Frame 29 Structure Modification - NonOrganic	25 / 1.695	3 / 0.179	4 / 0.243	4 / 0.248	- / -	4 / 0.248	4 / 0.249	6 / 0.372	- / -	- / -	- / -	46 / 2.986
1.1.12) ECP-TBD Speedbrake - Organic	- / -	7 / 0.406	26 / 1.508	86 / 5.083	- / -	86 / 5.083	- / -	- / -	- / -	- / -	- / -	119 / 6.997
1.1.13) ECP-PMA257-2011-0002 Digital Video Recorder (DVR) - Organic	- / -	137 / 1.059	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	137 / 1.059
1.1.14) ECP-TBD Seat Caution Light Incorporation - NonOrganic	- / -	- / -	3 / 0.060	20 / 0.200	- / -	20 / 0.200	20 / 0.204	20 / 0.208	20 / 0.212	5 / 0.054	- / -	88 / 0.938
1.1.15) ECP-TBD Utility Test Panel Upgrade - NonOrganic	- / -	- / -	2 / 0.062	20 / 0.540	- / -	20 / 0.540	20 / 0.550	20 / 0.561	19 / 0.543	- / -	- / -	81 / 2.256
1.1.16) ECP-TBD Radar Environmental Cooling System (ECS) Filter Incorporation - Organic	- / -	4 / 0.160	31 / 0.775	46 / 1.172	- / -	46 / 1.172	- / -	- / -	- / -	- / -	- / -	81 / 2.107
1.1.17) ECP-TBD Heads Up Display (HUD) Combining Glass Obsolescence Resolution - Organic	- / -	- / -	2 / 0.100	4 / 0.045	- / -	4 / 0.045	4 / 0.046	22 / 0.257	- / -	- / -	- / -	32 / 0.448
1.1.18) ECP-MDC-TBD- Brake Temp Monitoring Systems Incorporation - NonOrganic	- / -	- / -	- / -	3 / 0.042	- / -	3 / 0.042	10 / 0.140	20 / 0.285	20 / 0.291	20 / 0.296	6 / 0.091	79 / 1.145

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)

Models of Systems Affected: [No Model Specified]	Modification Type: TBD	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
1.1.19) ECP-TBD-Station 1&7 Pylon Attachment Fitting - NonOrganic	- / -	- / -	- / -	36 / 0.324	- / -	36 / 0.324	16 / 0.147	56 / 0.523	26 / 0.248	6 / 0.058	- / -	140 / 1.300
1.1.20) ECP-TBD-Outrigger Positive Indicator - NonOrganic ⁽¹⁶⁾	- / -	- / -	4 / 0.040	4 / 0.040	- / -	4 / 0.040	8 / 0.089	40 / 0.452	40 / 0.461	40 / 0.469	22 / 0.263	158 / 1.814
1.1.21) ECP-TBD- Main Landing Gear Hand Operated Strut - NonOrganic	- / -	- / -	- / -	2 / 0.120	- / -	2 / 0.120	10 / 0.600	20 / 1.223	20 / 1.246	20 / 1.270	7 / 0.453	79 / 4.912
1.1.22) ECP-TBD-Gun Shut-off Valve - Organic	- / -	- / -	- / -	3 / 0.060	- / -	3 / 0.060	76 / 1.520	- / -	- / -	- / -	- / -	79 / 1.580
1.1.23) ECP-TBD-Main Landing Gear Strut Servicing Indicator - NonOrganic	- / -	- / -	- / -	3 / 0.021	- / -	3 / 0.021	20 / 0.140	20 / 0.143	20 / 0.145	16 / 0.118	- / -	79 / 0.567
1.1.24) ECP-TBD-AV-8B Improved Canopy Transparency - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.028	18 / 0.511	18 / 0.521	31 / 0.915	68 / 1.975
1.1.25) ECP-TBD-Pitot Static Probe - Organic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.023	- / -	77 / 0.867	- / -	- / -	79 / 0.890
1.1.26) ECP-TBD-Nose Landing Gear Door Replacement - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.621	34 / 2.687	18 / 1.450	60 / 4.758
1.1.27) ECP-TBD-Main Landing Gear Door Replacement - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.491	34 / 2.129	18 / 1.148	60 / 3.768
1.1.28) A Kits/Recurring - ARCHIVED ECPs - NonOrganic	2,129 / 7.715	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,129 / 7.715
Subtotal: Recurring	- / 15.209	- / 4.868	- / 3.922	- / 8.822	- / -	- / 8.822	- / 4.593	- / 4.233	- / 5.636	- / 7.602	- / 5.805	- / 60.690
Non-Recurring												
1.2.1) Installation Kits N/R - Organic ⁽¹⁷⁾	- / 20.661	- / 2.039	- / 2.385	- / 6.106	- / -	- / 6.106	- / 3.469	- / 3.512	- / 3.625	- / 3.855	- / 16.838	- / 62.490
1.2.2) Installation Kits N/R (OCO) - Organic	- / 4.532	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.532
Subtotal: Non-Recurring	- / 25.193	- / 2.039	- / 2.385	- / 6.106	- / -	- / 6.106	- / 3.469	- / 3.512	- / 3.625	- / 3.855	- / 16.838	- / 67.022
B Kits												
Recurring												
2.1.1) ECP-TBD Inboard Throttle Transverse Shaft - Organic ⁽¹⁸⁾	- / -	- / -	2 / 0.017	123 / 1.118	- / -	123 / 1.118	- / -	- / -	- / -	- / -	- / -	125 / 1.135
2.1.2) ECP-PMA257-2013-0001 Airborne VMF Terminal (OCO) - Organic	65 / 4.170	- / -	50 / 3.373	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 7.543
2.1.3) B Kits Recurring - ARCHIVED ECPs - Organic	- / 22.521	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.521
Subtotal: Recurring	- / 26.691	- / -	- / 3.390	- / 1.118	- / -	- / 1.118	- / -	- / -	- / -	- / -	- / -	- / 31.199
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic ⁽¹⁹⁾	- / 18.396	- / 3.148	- / 0.510	- / 0.654	- / -	- / 0.654	- / -	- / -	- / -	- / -	- / -	- / 22.708
2.2.2) Installation Equipment N/R (OCO) - Organic	- / 7.865	- / -	- / 0.837	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.702
Subtotal: Non-Recurring	- / 26.261	- / 3.148	- / 1.347	- / 0.654	- / -	- / 0.654	- / -	- / -	- / -	- / -	- / -	- / 31.410

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)			
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: OBSOLESCENCE REPLACEMENT (OSIP 006-06)</i>	2,687 / 93.354	256 / 10.055	208 / 11.044	401 / 16.700	- / -	401 / 16.700	220 / 8.062	231 / 7.745	276 / 9.261	193 / 11.457	157 / 22.643	4,629 / 190.321	
<i>Subtotal: Procurement, All Modification Items</i>	- / 93.354	- / 10.055	- / 11.044	- / 16.700	- / -	- / 16.700	- / 8.062	- / 7.745	- / 9.261	- / 11.457	- / 22.643	- / 190.321	
Support (All Modification Items)													
3.2) Data ⁽²⁰⁾	- / 1.195	- / 0.342	- / 0.210	- / 0.265	- / -	- / 0.265	- / -	- / 0.110	- / 0.025	- / 0.025	- / -	- / 12.172	
3.3) Data (OCO)	- / 0.046	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.146	
3.4) Training Equipment ⁽²¹⁾	- / 0.568	- / 0.090	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.080	- / 0.158	- / 0.020	- / 0.020	- / -	- / 11.136	
3.5) Training Equipment (OCO)	- / -	- / -	- / 0.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.070	
3.6) Support Equipment	- / 5.389	- / 0.908	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	- / 16.347	
3.7) Support Equipment (OCO)	- / 0.069	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.169	
3.8) ILS ⁽²²⁾	- / 12.218	- / 0.920	- / 0.505	- / 0.328	- / -	- / 0.328	- / 0.298	- / 0.361	- / 0.338	- / 0.347	- / 1.608	- / 16.923	
3.9) ILS (OCO)	- / 0.125	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.125	
3.10) Other Support ⁽²³⁾	- / 128.639	- / 4.915	- / 1.849	- / 1.832	- / -	- / 1.832	- / 12.116	- / 12.190	- / 12.284	- / 12.336	- / 14.224	- / 60.385	
3.11) Other Support (OCO)	- / -	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.200	
<i>Subtotal: Support</i>	- / 38.249	- / 7.175	- / 3.134	- / 2.525	- / -	- / 2.525	- / 2.494	- / 2.819	- / 2.667	- / 2.728	- / 15.882	- / 77.673	
Installation													
<i>Modification Item 1 of 1: OBSOLESCENCE REPLACEMENT (OSIP 006-06)</i>	- / 15.651	- / 2.523	- / 4.763	- / 10.337	- / -	- / 10.337	- / 3.956	- / 4.147	- / 3.601	- / 1.423	- / 2.550	- / 48.951	
<i>Subtotal: Installation</i>	- / 15.651	- / 2.523	- / 4.763	- / 10.337	- / -	- / 10.337	- / 3.956	- / 4.147	- / 3.601	- / 1.423	- / 2.550	- / 48.951	
Total													
Total Cost (Procurement + Support + Installation)	147.254	19.753	18.941	29.562	-	29.562	14.512	14.711	15.529	15.608	41.075	316.945	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)

Modification Item 1 of 1: OBSOLESCENCE REPLACEMENT (OSIP 006-06)

Manufacturer Information

Manufacturer Name: Various ⁽²⁴⁾				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Safety:: Installation Name: OBSOLESCENCE REPLACEMENT (OSIP 006-06)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	270 / 15.651	69 / 2.523	85 / 4.197	62 / 2.563	- / 0.000	62 / 2.563	3 / 0.008	- / -	- / -	- / -	4 / 1.200	493 / 26.142
FY 2015	- / -	- / -	30 / 0.440	49 / 7.136	- / -	49 / 7.136	29 / 1.335	- / -	- / -	- / -	- / -	108 / 8.911
FY 2016	- / -	- / -	5 / 0.126	28 / 0.486	- / -	28 / 0.486	51 / 1.654	13 / 1.220	- / -	- / -	- / -	97 / 3.486
FY 2017	- / -	- / -	- / -	10 / 0.152	- / -	10 / 0.152	92 / 0.959	34 / 1.259	3 / 0.498	- / -	- / -	139 / 2.868
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	122 / 1.468	16 / 1.394	- / -	- / -	138 / 2.862
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.200	175 / 1.709	32 / 0.719	- / -	209 / 2.628
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	165 / 0.704	18 / 0.155	183 / 0.859
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	125 / 0.654	125 / 0.654
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	66 / 0.541	66 / 0.541
Total	270 / 15.651	69 / 2.523	120 / 4.763	149 / 10.337	- / -	149 / 10.337	175 / 3.956	171 / 4.147	194 / 3.601	197 / 1.423	213 / 2.550	1,558 / 48.951

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	270	13	22	20	14	33	30	31	26	35	37	47	30	32	44	56	43	41	50	42	38	40	49	58	47	54	56	44	43	213	1,558
Out	231	32	18	13	21	26	32	32	30	30	34	45	50	45	31	57	56	41	40	42	48	40	38	59	57	54	56	44	43	213	1,558

Method of Implementation (Organic): ECP-TBD LAU-127 Launcher - Not Installed **Installation Quantity:** 55

Method of Implementation (Organic): ECP-TBD Speedbrake **Installation Quantity:** 119

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)

Modification Item 1 of 1: OBSOLESCENCE REPLACEMENT (OSIP 006-06)

Installation Information

Method of Implementation (Organic): ECP-PMA257-2011-0002 Digital Video Recorder (DVR)	Installation Quantity: 137
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Method of Implementation (Organic): ECP-TBD Radar Environmental Cooling System (ECS) Filter Incorporation	Installation Quantity: 81
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Method of Implementation (Organic): ECP-TBD Heads Up Display (HUD) Combining Glass Obsolescence Resolution	Installation Quantity: 32
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Method of Implementation (Organic): ECP-TBD-Gun Shut-off Valve	Installation Quantity: 79
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Method of Implementation (Organic): ECP-TBD-Pitot Static Probe	Installation Quantity: 79
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Method of Implementation (Organic): ECP-TBD-Nose Landing Gear Door Replacement	Installation Quantity: 60
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Method of Implementation (Organic): ECP-TBD-Main Landing Gear Door Replacement	Installation Quantity: 60
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Method of Implementation (Organic): ECP-TBD Inboard Throttle Transverse Shaft	Installation Quantity: 125
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Method of Implementation (Organic): ECP-PMA257-2013-0001 Airborne VMF Terminal (OCO)	Installation Quantity: 115
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Footnotes:

⁽¹²⁾ ECP-PMA257-2011-0001 Center Tank Structural Modification: Program experienced delays in timely receipt of kits stemming from the implementation of a new Defense Logistics Agency material ordering process. This delay caused the installs of kits bought in FY15 to span more than four consecutive quarters. Material ordering process has normalized and kit installs in future years will occur within typical four consecutive quarter timeframe.

⁽¹³⁾ ECP PMA257-2008-0004 Frame 43 Bushings: TYCOM directed change in the Integrated Maintenance Plan (IMP) process slowed planned aircraft induction causing installs of kits bought in FY15 to span more than four consecutive quarters. Kit procurement has been adjusted in FY16 to accommodate the new PMI schedule and the installation of these kits will occur within the typical four consecutive quarter timeframe.

⁽¹⁴⁾ ECP-PMA257-2011-0003 Frame 11: Installation costs reflect labor rates for disassembly/reassembly required to complete mod due to contractor reductions at FRCs. PMI 1 events are expensive because Depot has to completely open the aircraft vice partial panel only. The projected labor hours of this mod is 4,000 hours to complete each installation.

⁽¹⁵⁾ ECP-MDA-AV-8B-0332 Canopy Latch: FY18 Unit cost increased due to requirement to procure more costly complete versus supplemental kits for the final buy. Supplemental GR-9 conversion kits provide components to enable installation of canopy latch kits obtained from the UK GR-9 material acquisition on USMC AV-8B's, while complete kits fill out the remaining quantities required for USMC aircraft inventory. While FY17 and FY18 kit quantities are the same, FY17 procures 12 supplemental and 10 complete kits and FY18 procures 3 supplemental and 19 complete kits.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)

- (16) ECP-TBD-Outrigger Positive Indicator: This modification requires 2 kits per aircraft. Design of this modification is currently incomplete. FY16 kits are for validation and verification installations of the ECP, while FY17 kits provide initial limited production and costs are based on initial engineering estimates. There is moderate risk associated with the design effort and it is reflected in projected out year retrofit kit buy costs. FY18 and FY19 kits are in support of planned aircraft depot PMI inductions for concurrent installations.
- (17) Installation Kits N/R: FY15-17 increases due to mix and complexity of Readiness Management Plan ECPs being written and verified in each year. All ECPs do not require the same level of NRE.
- (18) ECP-TBD Inboard Throttle Transverse Shaft: FY16-17 Increases kit quantity from 2 to 123 for validation verification in FY16 and FY17 kits are in support of projected aircraft O-Level installations. Initial design of this modification is complete with the exception of the failure modes and effects analysis, scheduled to deliver in March 2016. There is some risk the analysis may identify need for refinement of the design and the potential retrofit kit cost increase is reflected in the FY17 estimate.
- (19) Installation Equipment N/R: FY17 Increase to Installation Equipment N/R due to Inboard Throttle transverse shaft NRE beginning in FY16 and completing in FY-17. Equip NRE will fluctuate due to mix and complexity of RMP ECPs being written and verified in each year. All ECPs do not require the same level of NRE.
- (20) Data: FY17 publication efforts to support following ECPs: Seat Caution light, Station 1&7 Pylon, Outrigger Positive Indicator, and HUD. The pubs cost changes due to number, type, and complexity of ECPs.
- (21) Training Equipment: FY15-16 increase provides additional training equipment for 1.1.14 Seat Caution Light. FY18-19 increase adds necessary training equipment for 1.1.23 Main Landing Gear Strut Servicing Indicator.
- (22) ILS varies from year to year based on complexity of logistics elements and number of publications required to be updated for each individual ECP.
- (23) Other support funding reflects required obsolescence mitigation including avionics, hydraulic, electrical, flight controls, and structures bill of material development, and obsolescence ECP forecasting in order to support the extended end of service date. PB16 to PB17 reduced FY16 by \$3.3M due to Congressional issue 76884. Due to the reduction taken in FY-16, several material deficiency and obsolescence analyses and ECP development efforts will be constrained, requiring increased engineering and logistics support to provide timely mitigation. The increases in FY18 through 20 will enable completion of analyses, development, validation and verification efforts of initiatives necessary to sustain aircraft readiness through end of service.
- (24) Contract and delivery dates are not provided due to the compilation of various ECPs, which compose the install schedule and have different individual contract and delivery dates.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series			Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	3.300	23.500	-	23.500	4.600	2.700	1.200	-	-	35.300
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	-	3.300	23.500	-	23.500	4.600	2.700	1.200	-	-	35.300
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	3.300	23.500	-	23.500	4.600	2.700	1.200	-	-	35.300
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION:

The AV-8B is required to be digitally interoperable with other U.S. and Allied platforms via MIL-STD-6016 (Link 16) waveform. Airborne tactical datalink messaging will be enabled via Link 16 waveform, providing the ability for the AV-8B to provide Precise Participant Location and Identification (PPLI), send and receive targeting information, view the common air/surface picture, and view Link surveillance tracks. This tactical data communication between the AV-8B, ground units, and joint assets will provide increased interoperability, improved safety/situational awareness/deconfliction, reduced kill timelines, and digital interoperability. Link 16 A and B kits will be incorporated into the aircraft via ECP. ECPs to include but not limited to the Auxiliary Communications Navigation Identification Panel (ACNIP), Interference Blanker Unit (IBU) and the Mission Systems Computer (MSC) will also be required to be installed prior to or with Link 16 in order to utilize the capability, as will the APX-123 ECP, to be procured by PMA213. All ECPs will require NRE and logistics support elements to include tech data/pubs, ILS, training equipment/upgrade, support equipment procurement/modification and other support. This OSIP will also be used to perform efforts to address certifications / re-certification and spectrum assignments of these systems, as well as parts obsolescence. FY16 funding will procure and install IBU upgrade kits, perform all logistics elements to include support equipment, maintenance plan updates, data publication updates, and training systems updates associated to the IBU ECP, and will begin Link 16 ECP Integrated Logistics Support (ILS) and Link 16 install kit Non-Recurring engineering efforts. FY17 will provide funding for procurement of aircraft A-kit, as well as Link 16 B kit; and logistics elements to include support equipment procurement and support and aircrew and maintenance trainer upgrades, associated to the Link 16 and IBU ECPs, as well as Link 16 impact to H6.2 software ECP, as Link 16 functionality is enabled by and integrated via H6.2 OFF.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Procurement, installation, ILS, publication updates, trainer updates, and support equipment upgrades begin for the Digital Interoperability required IBU ECP in FY16, and Non-recurring engineering, integrated logistic support (ILS) work begins for Link 16 and associated OFF integration Digital Interoperability ECPs in FY16. Non recurring engineering for installation kits and installation equipment, as well as ILS efforts continue in FY17 for Link 16 ECPs, and procurements and associated publications and training equipment upgrades begin for Link 16 ECP A and B kits and OFF ECPs in FY17. Support equipment procurement/ upgrades/support and trainer upgrades and support begin in FY17 for Link 16 and OFF ECPs. Installation follows in FY18, followed by ECP and logistics element updates through the FYDP associated to the H7.0 ECP, which is required to integrate full Link 16 functionality. NRE will fluctuate due to mix and complexity of ECPs being written and verified in each year. The digital interoperability program is composed of multiple ECPs, due to number and complexity of ECPs ongoing in each FY, all ECPs do not require the same level of NRE or logistics element updates each year.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)

Models of Systems Affected: AV-8B Night Attack, Day Attack Upgrade, Radar/Reman & TAV-8B	Modification Type: Upgrade	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: DIGITAL INTEROPERABILITY (OSIP 014-16)

A Kits

Recurring

1.1.1) ECP-TBD Link 16 - NonOrganic - / - / - / 76 / 5.138 - / - / 76 / 5.138 - / - / - / - / - / - / - / 76 / 5.138

1.1.2) ECP-TBD Link 16 ACNIP Light Plate Mod (Non-Organic) - NonOrganic - / - / - / 121 / 0.085 - / - / 121 / 0.085 - / - / - / - / - / - / 121 / 0.085

1.1.3) ECP-PMA257-2016-000X IBU - NonOrganic ⁽²⁵⁾ - / - / - / 100 / 0.143 - / - / - / - / - / - / - / 100 / 0.143

Subtotal: Recurring - / 0.000 - / - / - / 100 / 0.143 - / 5.223 - / - / - / 5.223 - / - / - / - / - / - / - / 15.366

Non-Recurring

1.2.1) Installation Kits N/R - Organic ⁽²⁶⁾ - / - / - / 10.816 - / 0.515 - / - / - / 0.515 - / 0.137 - / - / - / - / - / - / 1.468

Subtotal: Non-Recurring - / 0.000 - / - / - / 10.816 - / 0.515 - / - / - / 0.515 - / 0.137 - / - / - / - / - / - / 1.468

B Kits

Recurring

2.1.1) ECP-TBD Link 16 - Organic - / - / - / 76 / 13.612 - / - / 76 / 13.612 - / - / - / - / - / - / 76 / 13.612

2.1.2) ECP-TBD H6.2 Software - Organic - / - / - / 10.217 - / - / - / 10.217 - / 0.105 - / - / - / - / - / - / 10.322

2.1.3) ECP-TBD H7.0 Software - Organic - / - / - / - / - / - / - / - / 0.110 - / 0.112 - / 0.027 - / - / - / - / 0.249

Subtotal: Recurring - / 0.000 - / - / - / 13.829 - / - / - / 13.829 - / 0.215 - / 0.112 - / 0.027 - / - / - / - / 14.183

Non-Recurring

2.2.1) Installation Equipment N/R - Organic ⁽²⁷⁾ - / - / - / 10.350 - / - / - / 10.350 - / - / - / - / - / - / - / 10.350

Subtotal: Non-Recurring - / 0.000 - / - / - / 10.350 - / - / - / 10.350 - / - / - / - / - / - / - / 10.350

Subtotal: DIGITAL INTEROPERABILITY (OSIP 014-16) - / - / - / 100 / 0.959 273 / 19.917 - / - / 273 / 19.917 - / 0.352 - / 0.112 - / 0.027 - / - / - / - / 373 / 21.367

Subtotal: Procurement, All Modification Items - / 0.000 - / - / - / 10.959 - / 19.917 - / - / - / 19.917 - / 0.352 - / 0.112 - / 0.027 - / - / - / - / 21.367

Support (All Modification Items)

3.1) Data ⁽²⁸⁾ - / - / - / 10.096 - / 0.580 - / - / - / 0.580 - / - / - / 0.119 - / - / - / - / - / - / 10.795

3.2) Training Equipment ⁽²⁹⁾ - / - / - / 10.115 - / 1.534 - / - / - / 1.534 - / 1.165 - / 1.233 - / 0.101 - / - / - / - / 1.418

3.3) Support Equipment ⁽³⁰⁾ - / - / - / 10.524 - / 0.548 - / - / - / 0.548 - / 0.186 - / 0.320 - / 0.194 - / - / - / - / 1.772

3.4) ILS ⁽³¹⁾ - / - / - / 10.856 - / 0.302 - / - / - / 0.302 - / 0.279 - / 0.283 - / 0.287 - / - / - / - / 1.2007

3.5) Other Support ⁽³²⁾ - / - / - / 10.424 - / 0.619 - / - / - / 0.619 - / 0.631 - / 0.633 - / 0.591 - / - / - / - / 1.2.898

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)

Models of Systems Affected: AV-8B Night Attack, Day Attack Upgrade, Radar/Reman & TAV-8B	Modification Type: Upgrade	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 2.015	- / 3.583	- / -	- / 3.583	- / 2.261	- / 2.588	- / 1.173	- / -	- / -	- / 11.620
Installation												
<i>Modification Item 1 of 1:</i> DIGITAL INTEROPERABILITY (OSIP 014-16)	- / 0.000	- / -	- / 0.326	- / -	- / -	- / -	- / 1.987	- / -	- / -	- / -	- / -	- / 2.313
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 0.326	- / -	- / -	- / -	- / 1.987	- / -	- / -	- / -	- / -	- / 2.313
Total												
Total Cost (Procurement + Support + Installation)	0.000	-	3.300	23.500	-	23.500	4.600	2.700	1.200	-	-	35.300

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)

Modification Item 1 of 1: DIGITAL INTEROPERABILITY (OSIP 014-16)

Manufacturer Information

Manufacturer Name: TBD - Link 16 ⁽³³⁾				Manufacturer Location: Various			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 9			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017				
Delivery Dates			Oct 2017				

Manufacturer Name: TBD- IBU ⁽³⁴⁾				Manufacturer Location: Various			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016					
Delivery Dates		Apr 2016					

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Link 16 & Link 16 ACNIP Light Plate

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	197 / 1.987	- / -	- / -	- / -	- / -	197 / 1.987
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	197 / 1.987	- / -	- / -	- / -	- / -	197 / 1.987

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)

Modification Item 1 of 1: DIGITAL INTEROPERABILITY (OSIP 014-16)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Link 16 & Link 16 ACNIP Light Plate

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	-	-	-	-	49	49	49	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	197
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	49	49	49	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	197

Method of Implementation: [none specified]:: Installation Name: ECP-PMA257-2016-000X IBU

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	100 / 0.326	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 0.326
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	100 / 0.326	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 0.326

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	-	-	-	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
Out	-	-	-	-	-	-	-	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100

Method of Implementation (Organic): ECP-TBD Link 16 - Not Installed

Installation Quantity: 76

Footnotes:

⁽²⁵⁾ ECP-PMA257-2016-000X IBU: FY16 Increase due to congressional funding issue 76886 for Link 16 Upgrades.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)

- (26) Installation Kits N/R: Non-recurring efforts required to support the installation of the Link 16 Installation Kit. FY16 Increase due to congressional funding issue 76886 for Link 16 Upgrades.
- (27) Install Equip NR Decreases in FY18 and FY19 due to reduced effort required once the Link 16 Installation equipment is in production.
- (28) Data: FY16 Increase due to congressional funding issue 76886 for Link 16 Upgrades. Increases in FY17 from FY16 due to the increased level of publications required to begin updates for Link 16 A and B kit incorporation. FY16 data funding only reflects data as related to the IBU ECP, which affects fewer publication elements. The ECPs that make up this OSIP are of varying degrees of complexity with regards to data updates, and each ECP is not at the same state each year.
- (29) Training equipment increases from FY16 to FY17 due to increased effort required to begin trainer updates for integration of Link 16 hardware and software into the AV-8B aircrew and maintenance trainers. The aircrew trainer impact of Link 16 is greater than the lesser impact to the maintenance trainer in FY16 due to the IBU ECP. Increase from FY18 to FY19 is due to the trainer update being for the H7.0 OFP Link 16 integration, which is expected to be somewhat more complex than the H6.2 OFP Link 16 integration due to expanded messages. The ECPs that make up this OSIP are of varying degrees of complexity with regards to trainer updates, and each ECP is not at the same state each year.
- (30) Support equipment increases from FY16 to FY17 due to increased effort required for Link 16 ECP support equipment. The impact of Link 16 hardware and software on support equipment in FY17 and beyond is greater than the impact that the IBU ECP has on support equipment in FY16. Increase from FY18 to FY19 is due to increase in effort for support equipment updates required for H7.0 OFP Link 16 integration. The ECPs that make up this OSIP are of varying degrees of complexity, and each ECP is not at the same state each year.
- (31) ILS Increase in FY16 due to congressional funding issue 76886 for Link 16 Upgrades.
- (32) Other support increases from FY16 to FY17 due to increased effort required to support LINK 16 software and hardware ECPs, which require a greater amount of effort due to quantity and complexity of ECPs than the single IBU ECP requires in FY16.
- (33) Contract and delivery dates are not provided due to the compilation of various ECPs, which compose the install schedule and have different individual contract and delivery dates.
- (34) Contract and delivery dates are not provided due to the compilation of various ECPs, which compose the install schedule and have different individual contract and delivery dates.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 5 / INACTIVE OSIPS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	481.793	-	-	-	-	-	-	-	-	-	-	481.793
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	481.793	-	-	-	-	-	-	-	-	-	-	481.793
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	481.793	-	-	-	-	-	-	-	-	-	-	481.793
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 5 / INACTIVE OSIPS			
Models of Systems Affected: [No Model Specified]					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: N/A</i>													
<i>Subtotal: N/A</i>													
<i>Subtotal: Procurement, All Modification Items</i>													
Support (All Modification Items)													
<i>1.1) Inactive Osips</i>													
<i>Subtotal: Support</i>													
Installation													
<i>Subtotal: Installation</i>													
Total													
Total Cost (Procurement + Support + Installation)													

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0514 / AV-8 Series		Modification Number / Title: 5 / INACTIVE OSIPS		
<i>Modification Item 1 of 1:</i> N/A							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (<i>in Months</i>):				Production Leadtime (<i>in Months</i>):			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Support Only Installation					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0522 / Adversary
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	52.419	4.918	5.441	5.191	-	5.191	2.564	3.911	3.686	3.758	10.793	92.681
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	52.419	4.918	5.441	5.191	-	5.191	2.564	3.911	3.686	3.758	10.793	92.681
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	52.419	4.918	5.441	5.191	-	5.191	2.564	3.911	3.686	3.758	10.793	92.681

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in ADVERSARY by \$0.220M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

This line item funds the modifications to the Adversary aircraft. The Adversary aircraft are a combination of 44 F-5 Tiger IIs (41 F-5Ns and 3 F-5Fs), and Block 15 F-16 Fighting Falcon (10 F-16As and 4 F-16Bs), and the J85 Engine supporting the F-5F/N. The Adversary aircraft provide essential sorties in support of TOPGUN, Fleet Replacement Squadron, Carrier Strike Group, Carrier Air Wing and Unit Deployment Plan training. Both the F-5s and the F-16s are planned to be used as primary Adversary mission through 2025.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
NR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.918	5.441	5.191	-	5.191	2.564	3.911	3.686
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.918	5.441	5.191	-	5.191	2.564	3.911	3.686

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0522 / Adversary

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Structural Enhancement Program - Reserve Forces (OSIP 009-13) (Safety/Reliability)			- / 6.319	- / -	- / -	- / 3.582	- / -	- / 3.582
P-3a	2 / F-5 SLEP (OSIP 006-15) (Safety/Reliability)			- / 0.000	- / 4.918	- / 5.441	- / 1.204	- / -	- / 1.204
P-3a	3 / F-5 System Safety and Sustainability OSIP 017-17 (Safety/Reliability)			- / 0.000	- / -	- / -	- / 0.405	- / -	- / 0.405
P-3a	4 / Inactive OSIPs (TBD)			- / 46.100	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 52.419	- / 4.918	- / 5.441	- / 5.191	- / -	- / 5.191

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Structural Enhancement Program - Reserve Forces (OSIP 009-13) (Safety/Reliability)			- / 2.019	- / 3.619	- / 3.686	- / 1.842	- / 1.842	- / 22.909
P-3a	2 / F-5 SLEP (OSIP 006-15) (Safety/Reliability)			- / 0.375	- / 0.292	- / -	- / -	- / -	- / 12.230
P-3a	3 / F-5 System Safety and Sustainability OSIP 017-17 (Safety/Reliability)			- / 0.170	- / -	- / -	- / 1.916	- / 8.951	- / 11.442
P-3a	4 / Inactive OSIPs (TBD)			- / -	- / -	- / -	- / -	- / -	- / 46.100
P-40	Total Gross/Weapon System Cost			- / 2.564	- / 3.911	- / 3.686	- / 3.758	- / 10.793	- / 92.681

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0522 / Adversary				Modification Number / Title: 1 / Structural Enhancement Program - Reserve Forces (OSIP 009-13)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6.319	-	-	3.582	-	3.582	2.019	3.619	3.686	1.842	1.842	22.909
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6.319	-	-	3.582	-	3.582	2.019	3.619	3.686	1.842	1.842	22.909
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6.319	-	-	3.582	-	3.582	2.019	3.619	3.686	1.842	1.842	22.909
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: This OSIP defines the incorporation of the Falcon Up structural enhancement modification in 10 navy F-16A Adversary aircraft. The Flacon Up modification is a safety modification that replaces known airframe fatigue sensitive structure. Incorporation of the Falcon Up kit extends the airframe service life from 3,665 flight hours to 4,250 flight hours and will extend the service life until approximately 2025.

Development Status/major Milestones: The structural components on the Falcon Up kit have been qualified by the Air Force and approved for Navy use. No operational testing is required. A first article test , consisting of nondestructive critical measurements is scheduled on the first delivered kit. Aircraft will be flown from NAS Fallon to Hill Air Force Depot in Ogden UT where Falcon Up kit will be installed.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0522 / Adversary					Modification Number / Title: 1 / Structural Enhancement Program - Reserve Forces (OSIP 009-13)			
Models of Systems Affected: F-16 ADVERSARY SERIES				Modification Type: Safety/Reliability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Structural Enhancement Program - Reserve Forces (OSIP 009-13)</i>													
A Kits													
Recurring													
1.1.1) Falcon UP Kits - NonOrganic ⁽¹⁾	4 / 3.000	- / -	- / -	1 / 0.040	- / -	1 / 0.040	2 / 0.080	2 / 0.080	1 / 0.040	- / -	- / -	10 / 3.240	
<i>Subtotal: Recurring</i>	<i>- / 3.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.040</i>	<i>- / -</i>	<i>- / 0.040</i>	<i>- / 0.080</i>	<i>- / 0.080</i>	<i>- / 0.040</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 3.240</i>	
Non-Recurring													
1.2.1) Non Recurring Engineering - Organic	- / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.200	
<i>Subtotal: Non-Recurring</i>	<i>- / 1.200</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.200</i>	
<i>Subtotal: Structural Enhancement Program - Reserve Forces (OSIP 009-13)</i>	<i>4 / 4.200</i>	<i>- / -</i>	<i>- / -</i>	<i>1 / 0.040</i>	<i>- / -</i>	<i>1 / 0.040</i>	<i>2 / 0.080</i>	<i>2 / 0.080</i>	<i>1 / 0.040</i>	<i>- / -</i>	<i>- / -</i>	<i>10 / 4.440</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 4.200</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.040</i>	<i>- / -</i>	<i>- / 0.040</i>	<i>- / 0.080</i>	<i>- / 0.080</i>	<i>- / 0.040</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 4.440</i>	
Support (All Modification Items)													
3.1) Other Support	- / 0.619	- / -	- / -	- / 0.360	- / -	- / 0.360	- / 0.317	- / 0.188	- / -	- / -	- / -	- / 1.484	
<i>Subtotal: Support</i>	<i>- / 0.619</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.360</i>	<i>- / -</i>	<i>- / 0.360</i>	<i>- / 0.317</i>	<i>- / 0.188</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.484</i>	
Installation													
<i>Modification Item 1 of 1: Structural Enhancement Program - Reserve Forces (OSIP 009-13)</i>	<i>- / 1.500</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 3.182</i>	<i>- / -</i>	<i>- / 3.182</i>	<i>- / 1.622</i>	<i>- / 3.351</i>	<i>- / 3.646</i>	<i>- / 1.842</i>	<i>- / 1.842</i>	<i>- / 16.985</i>	
<i>Subtotal: Installation</i>	<i>- / 1.500</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 3.182</i>	<i>- / -</i>	<i>- / 3.182</i>	<i>- / 1.622</i>	<i>- / 3.351</i>	<i>- / 3.646</i>	<i>- / 1.842</i>	<i>- / 1.842</i>	<i>- / 16.985</i>	
Total													
Total Cost (Procurement + Support + Installation)	6.319	-	-	3.582	-	3.582	2.019	3.619	3.686	1.842	1.842	22.909	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 1 / Structural Enhancement Program - Reserve Forces (OSIP 009-13)

Modification Item 1 of 1: Structural Enhancement Program - Reserve Forces (OSIP 009-13)

Manufacturer Information

Manufacturer Name: ES3				Manufacturer Location: Ogden Utah			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017	Jan 2018	Jan 2019	Jan 2020	
Delivery Dates			Apr 2017	Apr 2018	Apr 2019	Apr 2020	

Installation Information

Method of Implementation: Organic Maintenance Facility Hill Air Force Depot:: Installation Name: Falcon UP Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 1.500	- / -	- / -	2 / 3.182	- / 0.000	2 / 3.182	- / -	- / -	- / -	- / -	1 / 1.842	4 / 6.524
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.622	- / -	- / -	- / -	- / -	1 / 1.622
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.351	- / -	- / -	- / -	2 / 3.351
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.646	- / -	- / -	2 / 3.646
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.842	- / -	1 / 1.842
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 1.500	- / -	- / -	2 / 3.182	- / -	2 / 3.182	1 / 1.622	2 / 3.351	2 / 3.646	1 / 1.842	1 / 1.842	10 / 16.985

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	1	-	1	-	-	1	-	1	-	1	-	-	1	10
Out	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	1	-	1	-	-	1	-	1	-	1	-	2	10

Footnotes:

(1) Falcon Up Kit Cost: All initial tooling and set up costs are included in the initial buy of 4 kits. Kits 5-10 are much less expensive, budget figures is based of a Firm Fixed Price Option Price. Production Lead Time information above is for the A Kits.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 2 / F-5 SLEP (OSIP 006-15)
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	4.918	5.441	1.204	-	1.204	0.375	0.292	-	-	-	12.230
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	4.918	5.441	1.204	-	1.204	0.375	0.292	-	-	-	12.230
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	4.918	5.441	1.204	-	1.204	0.375	0.292	-	-	-	12.230

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Description: This item funds F-5 SLEP modifications to adversary aircraft used to train the Navy's pilots for combat. These aircraft are a combination of the 44 F-5 Tiger IIs (41 F-5Ns and 3 F-5Fs), and the J85 Engine supporting the F-5F/N. These 44 aircraft provide 59% of essential sorties in support of TOPGUN, Fleet Replacement Squadron, Carrier Strike Group, Carrier Air wing and Unit Deployment Plan training. This extends structural life of the F-5 to 2025.

The program funds the incorporation of structural component modifications required for adversary aircraft to extend service life in support of Fleet training.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0522 / Adversary					Modification Number / Title: 2 / F-5 SLEP (OSIP 006-15)			
Models of Systems Affected: F-5 ADVERSARY SERIES				Modification Type: Safety/Reliability					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> F-5 SLEP (OSIP 006-15)													
A Kits													
Recurring													
1.1.1) F-5 Wing Mod - Organic	- / -	4 / 2.550	3 / 2.962	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 5.512	
1.1.2) F-5 UCL - NonOrganic	- / -	- / -	10 / 0.865	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.865	
1.1.3) V-Stabs - NonOrganic	- / -	6 / 1.183	1 / 0.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.365	
1.1.4) H-Stabs - Organic	- / -	2 / 0.850	2 / 0.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.753	
<i>Subtotal: Recurring</i>	- / 0.000	- / 4.583	- / 4.912	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.495	
<i>Subtotal: F-5 SLEP (OSIP 006-15)</i>	- / -	12 / 4.583	16 / 4.912	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 9.495	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 4.583	- / 4.912	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.495	
Support (All Modification Items)													
2.1) Other Support	- / -	- / 0.335	- / 0.074	- / 0.096	- / -	- / 0.096	- / -	- / -	- / -	- / -	- / -	- / 0.505	
<i>Subtotal: Support</i>	- / 0.000	- / 0.335	- / 0.074	- / 0.096	- / -	- / 0.096	- / -	- / -	- / -	- / -	- / -	- / 0.505	
Installation													
<i>Modification Item 1 of 1:</i> F-5 SLEP (OSIP 006-15)	- / 0.000	- / -	- / 0.455	- / 1.108	- / -	- / 1.108	- / 0.375	- / 0.292	- / -	- / -	- / -	- / 2.230	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 0.455	- / 1.108	- / -	- / 1.108	- / 0.375	- / 0.292	- / -	- / -	- / -	- / 2.230	
Total													
Total Cost (Procurement + Support + Installation)	0.000	4.918	5.441	1.204	-	1.204	0.375	0.292	-	-	-	12.230	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 2 / F-5 SLEP (OSIP 006-15)

Modification Item 1 of 1: F-5 SLEP (OSIP 006-15)

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Saint Augustine, FL
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 17

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016					
Delivery Dates		May 2017					

Installation Information

Method of Implementation: Depot Maintenance Facility:: Installation Name: F-5 UCL

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	2 / 0.198	- / -	2 / 0.198	5 / 0.375	3 / 0.292	- / -	- / -	- / -	10 / 0.865
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 0.198	- / -	2 / 0.198	5 / 0.375	3 / 0.292	- / -	- / -	- / -	10 / 0.865

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	1	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	1	-	2	1	-	-	-	-	-	-	-	-	-	-	-	10

Method of Implementation: Depot Maintenance Contractor Facility:: Installation Name: V-Stabs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	2 / 0.455	4 / 0.728	- / -	4 / 0.728	- / -	- / -	- / -	- / -	- / -	6 / 1.183

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 2 / F-5 SLEP (OSIP 006-15)

Modification Item 1 of 1: F-5 SLEP (OSIP 006-15)

Installation Information

Method of Implementation: Depot Maintenance Contractor Facility:: Installation Name: V-Stabs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	1 / 0.182	- / -	1 / 0.182	- / -	- / -	- / -	- / -	- / -	1 / 0.182
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 0.455	5 / 0.910	- / -	5 / 0.910	- / -	- / -	- / -	- / -	- / -	7 / 1.365

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Out	-	-	-	-	-	-	-	-	-	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7

Method of Implementation (Organic): F-5 Wing Mod

Installation Quantity: 7

Method of Implementation (Organic): H-Stabs

Installation Quantity: 4

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0522 / Adversary				Modification Number / Title: 3 / F-5 System Safety and Sustainability OSIP 017-17				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	0.405	-	0.405	0.170	-	-	1.916	8.951	11.442
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	0.405	-	0.405	0.170	-	-	1.916	8.951	11.442
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	0.405	-	0.405	0.170	-	-	1.916	8.951	11.442
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Provides targeted initiatives to address age related safety and reliability issues engineered to address long term wear and tear on the F-5 airframe and subsystems in order to ensure safe, reliable, and effective aircraft throughout Adversary utilization period.

Fuel cells - this project redesigns forward, center and aft fuel cells to address the fit and leak problems of the existing fuel cells.

UHF radio - existing UHF radio is a Swiss unique radio that is obsolete and no longer supportable. This project integrates legacy ARC 210 radios into the F-5. The ARC-210 R/T, mount , and control head will be salvaged from retired navy aircraft and integrated into the F-5. The ARC 210 will provide required communications for all Adversary missions.

Weight on Wheels control switches - Existing switches on main landing gear are unreliable and major maintenance man-hour hour consumer for troubleshooting. This program reverse engineers replacement switches, additional retrofit.

LN-260 display - the display on the LN-260 navigation system is no longer procurable. This program integrate a FFF replacement display in the cockpit with additional retrofit.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0522 / Adversary					Modification Number / Title: 3 / F-5 System Safety and Sustainability OSIP 017-17			
Models of Systems Affected: F-5 Adversary Series				Modification Type: Safety/Reliability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: F-5 System Safety and Sustainability OSIP 017-17</i>													
A Kits													
Recurring													
1.1.1) Fuel Cells - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 3.300	44 / 3.300	
1.1.2) ARC-210 Radio - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.029	38 / 2.784	44 / 3.813	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.029	- / 6.084	- / 7.113	
B Kits													
Recurring													
2.1.1) Recurring Obsolescence - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.080	- / 1.080	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.080	- / 1.080	
Non-Recurring													
2.2.2) NRE Obsolescence - Organic	- / -	- / -	- / -	- / 0.368	- / -	- / 0.368	- / 0.070	- / -	- / -	- / 0.700	- / 0.354	- / 1.492	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / 0.368	- / -	- / 0.368	- / 0.070	- / -	- / -	- / 0.700	- / 0.354	- / 1.492	
Subtotal: F-5 System Safety and Sustainability OSIP 017-17	- / -	- / -	- / -	- / 0.368	- / -	- / 0.368	- / 0.070	- / -	- / -	6 / 1.729	82 / 7.518	88 / 9.685	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 0.368	- / -	- / 0.368	- / 0.070	- / -	- / -	- / 1.729	- / 7.518	- / 9.685	
Support (All Modification Items)													
3.1) Other Support	- / -	- / -	- / -	- / 0.037	- / -	- / 0.037	- / 0.100	- / -	- / -	- / 0.187	- / -	- / 0.324	
3.3) Test	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	- / 0.050	
Subtotal: Support	- / 0.000	- / -	- / -	- / 0.037	- / -	- / 0.037	- / 0.100	- / -	- / -	- / 0.187	- / 0.050	- / 0.374	
Installation													
<i>Modification Item 1 of 1: F-5 System Safety and Sustainability OSIP 017-17</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.383	- / 1.383	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.383	- / 1.383	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	0.405	-	0.405	0.170	-	-	1.916	8.951	11.442	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 3 / F-5 System Safety and Sustainability OSIP 017-17

Modification Item 1 of 1: F-5 System Safety and Sustainability OSIP 017-17

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: St Augustine
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017	Jan 2019	Jan 2021		
Delivery Dates			Jan 2018	Jan 2020	Jan 2022		

Installation Information

Method of Implementation: NAS Key West, MCAS Yuma, NAS Fallon:: Installation Name: ARC-210 Radio

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / -	6 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 1.383	38 / 1.383
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 1.383	44 / 1.383

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	44
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	44

Method of Implementation (Organic): Fuel Cells

Installation Quantity: 44

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 4 / Inactive OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	46.100	-	-	-	-	-	-	-	-	-	-	46.100
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	46.100	-	-	-	-	-	-	-	-	-	-	46.100
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	46.100	-	-	-	-	-	-	-	-	-	-	46.100

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0522 / Adversary					Modification Number / Title: 4 / Inactive OSIPs			
Models of Systems Affected: [No Model Specified]					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Inactive OSIPs</i>													
B Kits													
Non-Recurring													
2.2.1) Inactive OSIPs - Organic	- / 46.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 46.100	
<i>Subtotal: Non-Recurring</i>	- / 46.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 46.100	
<i>Subtotal: Inactive OSIPs</i>	- / 46.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 46.100	
<i>Subtotal: Procurement, All Modification Items</i>	- / 46.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 46.100	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	46.100	-	-	-	-	-	-	-	-	-	-	46.100	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 4 / Inactive OSIPs
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0525 / F-18 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 000	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6,900.153	704.324	920.351	1,023.492	-	1,023.492	1,247.611	1,387.255	1,565.656	1,522.806	7,441.836	22,713.484
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6,900.153	704.324	920.351	1,023.492	-	1,023.492	1,247.611	1,387.255	1,565.656	1,522.806	7,441.836	22,713.484
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6,900.153	704.324	920.351	1,023.492	-	1,023.492	1,247.611	1,387.255	1,565.656	1,522.806	7,441.836	22,713.484

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to all models of the F/A-18 aircraft. The F/A-18 Naval Strike Fighter is a twin-engine, mid-wing, multi-mission tactical aircraft. The F/A-18 is employed in both Navy and Marine Corps squadrons. Commencing with the FY 1988 procurement, both the single seat and two-seat F/A-18s include a night attack capability. The F/A-18 can be missionized through selected use of external equipment to accomplish specific fighter or attack missions. This commonality provides the Operational Commander more flexibility in employing his tactical aircraft in a dynamic scenario. The primary design mission for the F/A-18 is a strike fighter which includes the traditional fighter applications, such as fighter escort and fleet air defense, combined with the attack applications, such as interdiction and close air support. Since fighter capabilities are available in either mission, a robust self-defense capability is retained.

NOTE: Kit procurements were budgeted and executed properly, in alignment with planned organic depot inductions. Aircraft inductions have exceeded depot capacity due to many aircraft reaching service life limits at the same time, increased turnaround time due to material degradation and corrosion repairs over and above planned modification efforts, and delays caused by sequestration which increased the number of Out of Reporting (OOR) aircraft. Due to these depot constraints, prior year kit procurements became misaligned with aircraft installations. Depot level kit installations have been impacted by depot throughput constraints and backlog. The install schedules reflected in this budget take into account the current constrained depot throughput and backlog. Any disruptions to the current budget will disrupt on-going modifications required to address OOR aircraft.

Current aircraft inventory as of 2 Sep 15, Flight hours flown as of 1 Jul 15:

- F/A-18A (Lots 1 - 6) - 1 (Active): service life 8,000 hours (current); average service life remaining 4,320 (current)
- F/A-18B (Lots 1 - 6) - 8 (Active): service life 6,000 hours (current); average service life remaining 2,429 (current)
- F/A-18A (Lots 7 - 9) - 94 (52 Active, 42 Reserve): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining 357 hours (current); 2,358 hours (extended)
- F/A-18B (Lots 7 - 9) - 13 (Active): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining 709 (current); 2,709 (extended)
- F/A-18C - 368 (365 Active, 2 Reserve): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining 727 (current); 2,727 (extended)
- F/A-18D - 129 (Active): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining 962 (current); 2,962 (extended)
- F/A-18E - 279 (Active): service life 6,000 hours (current); 9,000 hours (extended); average service life remaining 3,735 (current); 6,735 (extended)
- F/A-18F - 261 (Active): service life 6,000 hours (current); 9,000 hours (extended); average service life remaining 3,363 (current); 6,363 (extended)
- EA-18G - 116 (111 Active, 5 Reserve): service life 7,500 hours (current); average service life remaining 6,378 (current)

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0525 / F-18 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 000 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Correction of Discrepancies (OSIP 11-84) (SAFETY /RELIABILITY/ IMPROVEMENT)			- / 1,088.749	- / 76.136	- / 89.293	- / 78.833	- / -	- / 78.833
P-3a	2 / Digital Communications System (DCS) (OSIP 10-99) (CAPABILITY IMPROVEMENT)			- / 89.100	- / 10.780	- / 12.359	- / 17.623	- / -	- / 17.623
P-3a	3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+ (SAFETY / LIFE EXTENSION)			- / 1,039.753	- / 82.619	- / 101.989	- / 122.375	- / -	- / 122.375
P-3a	4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99) (CAPABILITY IMPROVEMENT)			- / 414.763	- / 17.786	- / 62.385	- / 64.513	- / -	- / 64.513
P-3a	5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00) (AVIONICS UPGRADE)			- / 349.932	- / 15.112	- / 7.257	- / 15.111	- / -	- / 15.111
P-3a	6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00) (CAPABILITY IMPROVEMENT)			- / 291.726	- / 5.730	- / 7.951	- / 4.129	- / -	- / 4.129
P-3a	7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01) (CAPABILITY IMPROVEMENTS)			- / 880.106	- / 8.203	- / 16.737	- / 0.802	- / -	- / 0.802
P-3a	8 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02) (TRAINERS UPGRADE)			- / 166.249	- / 30.441	- / 29.504	- / 27.004	- / -	- / 27.004
P-3a	9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03) (SAFETY /RELIABILITY/IMPROVEMENT)			- / 673.239	- / 81.766	- / 161.992	- / 143.920	- / -	- / 143.920
P-3a	10 / Core Avionics Improvements / Upgrades (OSIP 023-04) (Capability and Reliability Improvements)			- / 183.607	- / 61.444	- / 117.155	- / 119.974	- / -	- / 119.974
P-3a	11 / Litening AT Targeting Pod (OSIP 024-04) (CAPABILITY IMPROVEMENTS)			- / 162.364	- / 1.182	- / 1.269	- / 0.989	- / -	- / 0.989
P-3a	12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07) (AVIONICS UPGRADE)			- / 828.374	- / 68.571	- / 91.620	- / 148.268	- / -	- / 148.268
P-3a	13 / EW Unique (OSIP 021-08) (Capability Improvements)			- / 192.113	- / 38.173	- / 1.188	- / 0.484	- / -	- / 0.484
P-3a	14 / Network Centric Operations: (OSIP 001-10) (Avionics Upgrade)			- / 158.899	- / 36.439	- / 25.783	- / 23.139	- / -	- / 23.139
P-3a	15 / EA-18G Unique OSIP (011-10) (SAFETY /RELIABILITY/ IMPROVEMENT)			- / 70.600	- / 19.049	- / 10.760	- / 22.632	- / -	- / 22.632
P-3a	16 / Power and Propulsion (11-13) (Safety, Readiness, Reliability)			- / 5.133	- / 36.703	- / 10.316	- / 34.524	- / -	- / 34.524
P-3a	17 / Infrared Search and Track (IRST) (04-14) (CAPABILITY IMPROVEMENTS)			- / 0.000	- / 69.815	- / 110.584	- / 110.920	- / -	- / 110.920
P-3a	18 / Automated Information Systems (AIS) (OSIP 018-14) (Safety)			- / 30.136	- / 33.435	- / 39.017	- / 35.596	- / -	- / 35.596
P-3a	19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14) (SAFETY / LIFE EXTENSION)			- / 9.901	- / 10.940	- / 9.012	- / 39.520	- / -	- / 39.520
P-3a	20 / Priority Stores Integration (OSIP 10-16) (CAPABILITY IMPROVEMENT)			- / 0.000	- / -	- / 14.180	- / 13.136	- / -	- / 13.136
P-3a	21 / Inactive OSIPs (TBD)			- / 265.409	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 6,900.153	- / 704.324	- / 920.351	- / 1,023.492	- / -	- / 1,023.492

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0525 / F-18 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 000 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Correction of Discrepancies (OSIP 11-84) (SAFETY /RELIABILITY/ IMPROVEMENT)			- / 78.989	- / 85.103	- / 68.194	- / 68.788	- / 230.361	- / 1,864.446
P-3a	2 / Digital Communications System (DCS) (OSIP 10-99) (CAPABILITY IMPROVEMENT)			- / 21.486	- / 31.457	- / 10.810	- / 10.990	- / -	- / 204.605
P-3a	3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+ (SAFETY / LIFE EXTENSION)			- / 136.576	- / 156.357	- / 157.261	- / 150.325	- / 1,218.864	- / 3,166.119
P-3a	4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99) (CAPABILITY IMPROVEMENT)			- / 82.938	- / 59.890	- / 60.899	- / 61.779	- / 199.145	- / 1,024.098
P-3a	5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00) (AVIONICS UPGRADE)			- / 11.865	- / -	- / -	- / -	- / -	- / 399.277
P-3a	6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00) (CAPABILITY IMPROVEMENT)			- / 2.253	- / -	- / -	- / -	- / -	- / 311.789
P-3a	7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01) (CAPABILITY IMPROVEMENTS)			- / 2.962	- / 1.855	- / -	- / -	- / 3.889	- / 914.554
P-3a	8 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02) (TRAINERS UPGRADE)			- / 22.270	- / 35.089	- / 39.770	- / 40.344	- / 224.422	- / 615.093
P-3a	9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03) (SAFETY /RELIABILITY/IMPROVEMENT)			- / 154.022	- / 159.695	- / 212.716	- / 207.641	- / 144.785	- / 1,939.776
P-3a	10 / Core Avionics Improvements / Upgrades (OSIP 023-04) (Capability and Reliability Improvements)			- / 105.872	- / 123.564	- / 282.943	- / 279.786	- / 1,610.758	- / 2,885.103
P-3a	11 / Litening AT Targeting Pod (OSIP 024-04) (CAPABILITY IMPROVEMENTS)			- / 1.074	- / 0.018	- / -	- / -	- / 1.087	- / 167.983
P-3a	12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07) (AVIONICS UPGRADE)			- / 247.603	- / 219.230	- / 244.512	- / 168.352	- / 72.061	- / 2,088.591
P-3a	13 / EW Unique (OSIP 021-08) (Capability Improvements)			- / -	- / -	- / -	- / -	- / -	- / 231.958
P-3a	14 / Network Centric Operations: (OSIP 001-10) (Avionics Upgrade)			- / 40.773	- / 24.369	- / 26.136	- / 26.514	- / 95.184	- / 457.236
P-3a	15 / EA-18G Unique OSIP (011-10) (SAFETY /RELIABILITY/ IMPROVEMENT)			- / 37.590	- / 85.061	- / 46.423	- / 58.973	- / 120.818	- / 471.906
P-3a	16 / Power and Propulsion (11-13) (Safety, Readiness, Reliability)			- / 49.207	- / 68.932	- / 60.506	- / 67.739	- / 29.300	- / 362.360
P-3a	17 / Infrared Search and Track (IRST) (04-14) (CAPABILITY IMPROVEMENTS)			- / 104.393	- / 129.011	- / 150.230	- / 165.000	- / 781.777	- / 1,621.730
P-3a	18 / Automated Information Systems (AIS) (OSIP 018-14) (Safety)			- / 45.925	- / 55.227	- / 53.975	- / 54.754	- / 96.117	- / 444.182
P-3a	19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14) (SAFETY / LIFE EXTENSION)			- / 90.862	- / 138.704	- / 137.908	- / 145.880	- / 2,561.735	- / 3,144.462
P-3a	20 / Priority Stores Integration (OSIP 10-16) (CAPABILITY IMPROVEMENT)			- / 10.951	- / 13.693	- / 13.373	- / 15.941	- / 51.533	- / 132.807
P-3a	21 / Inactive OSIPs (TBD)			- / -	- / -	- / -	- / -	- / -	- / 265.409
P-40	Total Gross/Weapon System Cost			- / 1,247.611	- / 1,387.255	- / 1,565.656	- / 1,522.806	- / 7,441.836	- / 22,713.484

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0525 / F-18 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000	Item MDAP/MAIS Code(s): N/A	
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.		

Justification:
The overall goal of the modifications budgeted in FY 2017 is to implement commonality/capability and structural safety and reliability improvements. Justification for the changes in the budget from FY16 to FY17 are as follows:

OSIP 11-84 decreases due to a reduced number of Engineering Change Proposals (ECPs) being procured. This OSIP addresses F/A-18 A/B/C/D aircraft correction of deficiencies discovered during sustainment activities, engineering analysis, standard depot level evaluations, and/or normal fleet operations by implementing ECPs to modify, improve, and restore aircraft structural and sub-systems safety and reliability to designed aircraft life limits.

OSIP 10-99 increases due to increased procurement of Gen 5 radios from a quantity of 27 in FY16 to a quantity of 141 in FY17. The Gen5 radio is a Crypto Modernized (Embedded COMSEC Module) ARC-210 radio that is a form/fit replacement for RT-1824 DCS radio in currently in the COMM2 position.

OSIP 11-99 increases due to the ramp-up of the F/A-18A-D SLEP program, reflected by the procurement of 27 ECPs in FY17 vice 14 ECPs in FY16. In addition, kit quantity procurements for some ECPs increased from two kits in FY16 to as many as 20 kits in FY17. Installs increase from FY16 to FY17 as well. This OSIP incorporates aircraft structural and sub-systems modifications that are required to attain required F/A-18A-D service life, and maintain sufficient aircraft inventory to meet fleet operational requirements through FY 2030.

OSIP 12-99 increases due to increased procurement of MIDS JTRS terminals from a quantity of 118 in FY16 to a quantity of 144 in FY17. This OSIP funds MIDS JTRS, which is a 4th Generation LINK 16 terminal. It provides secure, jam-resistant, high throughput digital and data communications that supports positive identification, precise location, situational awareness, sensor to shooter coordination, and reduction of fratricide between U.S. and Allied aircraft, maritime and ground forces.

OSIP 21-00 increases due to increased installations and repairs incident to modifications. This OSIP funds upgrades for USMC F/A-18A/B/C/D aircraft structural and avionics, including hardware and software capabilities, in order to meet mission-critical requirements of the USMC Tactical Aircraft Integration Plan while implementing upgraded cockpit displays and improving flight safety.

OSIP 24-00 decreases due to no procurement of kits in FY17 (FY16 was the final procurement). In addition, install funding was reduced due to fewer kits being installed. This OSIP provides the fleet with JHMCS to cue onboard weapons to the pilot's line of sight including high off boresight weapons.

OSIP 12-01 decreases due to no procurement of kits in FY17 (FY16 was the final procurement). This OSIP funds non-recurring engineering and installation of the ATFLIR Remote Operations Video Enhanced Receiver (ROVER) data link wiring kits which enable the transmission of full motion video from the ATFLIR pod to the ROVER ground stations allowing ground commanders to coordinate directly with the aircrew for non-traditional intelligence, surveillance and reconnaissance missions as well as close air support missions.

OSIP 06-02 decreases due to decreased aircrew trainer modifications. This OSIP funds F/A-18C-F and EA-18G aircrew and maintenance training systems to support 29C and H14 software concurrency capabilities to meet current fleet readiness squadron and fleet training and readiness requirements to increase the simulation fidelity of aircraft driven changes implemented across a distributed architecture and simulated threat environment.

OSIP 14-03 decreases due to decreased trailing edge flap redesign kits, as a result of reduced availability of funding. The funding for installs increases from FY16 to FY17 (while the overall OSIP total decreases) due to the higher number of kits procured in FY16, which are being installed in FY17. This OSIP funds modifications required for the Super Hornet and Growler in order to correct aircraft discrepancies and life limited locations required to continue to fly the aircraft to its design life.

OSIP 23-04 increases due to increased advanced mission computer engineering efforts. This OSIP funds F/A-18 System Configuration Set mission computer software, and associated Joint Mission Planning System Unique hardware and software updates, retrofit modifications, corrections of fleet discrepancies and associated test verification, and improvements driven by aircraft avionics modifications and fleet

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0525 / F-18 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000	Item MDAP/MAIS Code(s): N/A	
<p>requirements. Funding for a Civilian Instrument Landing System capability is also included. It also provides the fleet with multiple upgrades to the Core Avionics systems of FA-18 series aircraft. Modifications include: Solid State Recorders for F/A-18C/D/E, 24 Port Fiber Channel Network Switch (FCNS) and Advanced Capability Mission Computer (ACMC) for EA-18G that are necessary for Next Generation Jammer (NGJ), and the USMC High Order Language (HOL) Upgrade that include new Advanced Capability Mission Computer (ACMC) and displays for USMC F/A-18 C/D.</p> <p>OSIP 24-04 decreases due to reduced installations.</p> <p>OSIP 02-07 increases due to ramp up of the Counter-Electronic Attack (CEA) program resulting in increased procurements of general purpose processor - 3, 5th and 6th channel, and waveform generator kits from no kits procured in FY16 to a quantity of 59 in FY17. This OSIP funds the integration of CEA capability for the APG-79 Radar, procures Configuration D Kits to enable CEA capabilities, and funds radar obsolescence mitigations for APG-65/73 and APG-79 radars to improve Fleet Readiness.</p> <p>OSIP 21-08 decreases due to fewer kits being installed in FY17. This OSIP funds ALR-67(V)3 radar warning receiver systems to be used to retrofit F/A-18C/D/E/F platforms, particularly supporting the FY15 Congressional Add to retrofit USMC F/A-18 C/D aircraft, to also include ECP-622 ALR-67(V)3 wiring kit installations.</p> <p>OSIP 01-10 decreases due to no procurement of DTS A-kits and ANAV kits (FY16 was the final procurement). This OSIP provides the fleet with a common capability that includes Distributed Targeting System (DTS), Digital Memory Device (DMD) or Digital Transfer Unit (DTU), and Upgraded Solid State Recorder (USSR), to support all mission areas and establish common configuration across F-18 Block II aircraft. It also funds Accurate Navigation, which functions as a Global Positioning System/ Inertial Navigation System and provides precision targeting data, improved position, velocity, & time.</p> <p>OSIP 11-10 increases due to initial procurement of ALQ-218 kits. This OSIP funds EA-18G ALQ-99 hardback retrofit/modification completion as well as begins ALQ-218 hardware and software modification efforts for increased emitter detection.</p> <p>OSIP 11-13 increases due to ramp up of the Generator Converter Unit (GCU) program, resulting in increased kit procurements from 46 kits in FY16 to 184 kits in FY17. This OSIP addresses the reliability and maintainability shortfalls of the F/A-18E/F and EA-18G GCU, the top degrader in the fleet, through procurement of GCU upgrade kits that will increase reliability from 109 hrs to 285 hrs between removals, directly reducing demand and allowing limited repair production capacity to support deployed aircraft.</p> <p>OSIP 04-14 increases due to increased support equipment required for the startup of the Infrared Search and Track (IRST) program. This OSIP funds procurement of Block I pods and related support equipment which will provide an out of band, long range passive detection and track capability as an alternate fire control system in a high threat electronic attack (RADAR denied) environment to support target breakout and weapons quality tracks in both day and night operations.</p> <p>OSIP 18-14 decreases are reflected in decreased software procurements. The F/A-18 A-F and EA-18G Automated Maintenance Environment (AME) system allows the maintainer to safely perform maintenance on the F-18A-F and EA-18G by using electronic publications, maintenance documentation environment and work stations. The Weaponing, Integrated, Naval Aviation Technical Information Product (NATIP), Naval Air Training and Operating Procedures Standardization (NATOPS) (WINN) system allows the aircrew to safely employ the aircraft and its weapons in a tactical environment by providing the NATOPS (aircraft) and NATIP (weapons) manuals as well as providing the flight clearances required for safe flight operations.</p> <p>OSIP 20-14 increases due to ramp up of the F/A-18E/F service life extension program, with initial kit procurements in FY17, as well as increased non-recurring engineering efforts. This OSIP funds modifications required to extend the F/A-18E/F and EA-18G service life and maintain sufficient aircraft inventory to meet fleet operational requirements through FY2043.</p> <p>OSIP 10-16 decreases due to reduced non-recurring engineering efforts. This OSIP will be used to facilitate priority stores integration, to include AIM-120 advanced medium range air to air missile single carriage on F/A-18E/F midboard station; ECPs; and air worthiness analysis and/or certification to support fleet requests, such as Joint Direct Attack Munition - Extended Range (JDAM-ER), hot loading, air launched decoy, and dual carriage of GBU32 1000lb JDAM on bomb rack unit (BRU55).</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,088.749	76.136	89.293	78.833	-	78.833	78.989	85.103	68.194	68.788	230.361	1,864.446
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,088.749	76.136	89.293	78.833	-	78.833	78.989	85.103	68.194	68.788	230.361	1,864.446
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,088.749	76.136	89.293	78.833	-	78.833	78.989	85.103	68.194	68.788	230.361	1,864.446
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Corrections to discrepancies found during testing and evaluation can sometimes be incorporated into production aircraft, effective with the physical configuration audit which establishes the product baseline of the aircraft. However, when this cannot be done due to time constraints, retrofit of the changes into already delivered aircraft requires funding through the aircraft modification program. Additionally, aircraft discrepancies can be discovered during sustainment activities, engineering analysis, standard depot level evaluations, and/or during normal fleet operations. Not addressing these structural and system discrepancies will create maintenance and supply problems, and adversely impact safety of flight and operational readiness. This Operational, Safety and Improvement Program (OSIP) provides resources to correct such issues via Engineering Change Proposal (ECP) and other applicable procurement efforts by modifying, improving, and restoring aircraft structural safety and reliability to designed/required life limits. Modifications for the F/A-18 A/B/C/D aircraft include: flight controls, forward fuselage, aft fuselage, wing, critical structures, electrical, hydraulic, Environmental Control Systems (ECS), launch and recovery, fuel, mechanical, secondary power, Blue Angel modifications, and other sustainment activities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Each change has been or will be tested prior to installation into the F/A-18.

NOTE: Kit procurements were budgeted and executed properly, in alignment with planned organic depot inductions. Aircraft inductions have exceeded depot capacity due to many aircraft reaching service life limits at the same time, increased turnaround time due to material degradation and corrosion repairs over and above planned modification efforts, and delays caused by sequestration which increased the number of Out of Reporting (OOR) aircraft. Due to these depot constraints, prior year kit procurements became misaligned with aircraft installations. Depot level kit installations have been impacted by depot throughput constraints and backlog. The install schedules reflected in this budget take into account the current constrained depot throughput and backlog. Any disruptions to the current budget will disrupt on-going modifications required to address OOR aircraft.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Models of Systems Affected: F/A-18 A/B/C/D	Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)												
A Kits												
Recurring												
1.1.1) ECP 590 OBOGS SSOM, Safety ECP - Organic	59 / 0.539	276 / 4.140	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	335 / 4.679
1.1.2) ECP 609 Inner Wing Conversion/ Modification - Fuel Improvements - NonOrganic	47 / 0.768	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 0.768
1.1.3) ECP 609 Inner Wing Conversion/ Modification - NonOrganic	15 / 2.850	12 / 1.255	12 / 1.305	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 5.410
1.1.4) ECP 615 F/A-18 A-D GGU12/A Oxygen Concentrators Upgrade - Organic	- / -	435 / 2.801	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	435 / 2.801
1.1.5) ECP 973 Fuel Cell Floor Crack - NonOrganic	200 / 2.871	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 2.871
1.1.6) ECP 1034 NI Trailing Edge Flap/Aileron Attach Log Bushing - NonOrganic	614 / 3.510	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	614 / 3.510
1.1.7) ECP 1098NI F/A-18 A-D Y615 Former and Bootstrap Retrofit - NonOrganic	130 / 6.289	50 / 2.353	50 / 2.845	50 / 2.896	- / -	50 / 2.896	50 / 2.948	50 / 3.001	50 / 3.055	50 / 3.110	45 / 2.777	525 / 29.274
1.1.8) ECP 1100 F/A-18 A-D Keel Beam Web Retrofit - NonOrganic	189 / 0.159	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	189 / 0.159
1.1.9) ECP 1101 Inner Wing AFT Closure Rib - NonOrganic	85 / 11.138	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	85 / 11.138
1.1.10) ECP 1102 Y508 Former Shear Tie Fastener Holes Retrofit - NonOrganic	525 / 1.077	- / -	83 / 0.188	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	608 / 1.265
1.1.11) ECP 1118NI F/A-18 A-D Y580.5/Y590.5 Former Replacement Modline - NonOrganic	140 / 9.186	60 / 3.931	36 / 2.254	30 / 1.912	- / -	30 / 1.912	30 / 1.947	30 / 1.982	- / -	60 / 4.108	180 / 14.362	566 / 39.682
1.1.12) ECP 1120NI F/A-18 A-D Upper O/B Longeron Y453/Y508 Fw Section Splice - NonOrganic	120 / 2.505	50 / 1.293	51 / 0.546	11 / 0.120	- / -	11 / 0.120	- / -	- / -	- / -	- / -	- / -	232 / 4.464
1.1.13) ECP 1125 F/A-18 A-D Y470 Inner Wing Panel Lug - NonOrganic	184 / 0.356	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	184 / 0.356
1.1.14) ECP 1137NI Fire Extinguisher Temp Compensating Pressure Switch - NonOrganic	160 / 0.136	269 / 0.225	190 / 0.162	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	619 / 0.523
1.1.15) ECP-1139 Aircraft Ground Servicing Engine Inlet Screen - Organic	- / -	320 / 0.121	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	320 / 0.121
1.1.16) ECP 1140NI Aileron Servocyindr Main Ram Linear Var Displacement - Organic	- / -	- / -	437 / 3.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	180 / 1.800	617 / 5.733
1.1.17) ECP-1142NI Y326.5 Lead Edge Ext (LEX) Spt Fitting & Substructure - NonOrganic	362 / 0.858	- / -	120 / 0.313	41 / 0.108	- / -	41 / 0.108	- / -	- / -	- / -	- / -	- / -	523 / 1.279

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Models of Systems Affected: F/A-18 A/B/C/D	Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
1.1.18) ECP-1142C1NI Y394.2 LEX Connecting Link Retrofit - NonOrganic	244 / 0.022	- / -	120 / 0.062	120 / 0.063	- / -	120 / 0.063	125 / 0.066	- / -	- / -	- / -	- / -	609 / 0.213
1.1.19) ECP 1148NI Speed Brake Arresting Hook Actuator Fitting Retrofit - NonOrganic	308 / 2.540	62 / 1.257	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	370 / 3.797
1.1.20) ECP-1155 NI Fuel Tank Four Cavity Foam Material Change - NonOrganic	182 / 0.155	- / -	- / -	144 / 0.131	- / -	144 / 0.131	144 / 0.134	139 / 0.131	- / -	- / -	- / -	609 / 0.551
1.1.21) ECP 1159 - Y557.5 Bulkhead Tub Retrofit - NonOrganic	102 / 0.339	- / -	- / -	40 / 0.135	- / -	40 / 0.135	40 / 0.138	40 / 0.140	40 / 0.143	40 / 0.145	285 / 0.997	587 / 2.037
1.1.22) ECP 6217 Cockpit Pressurization Warning System - NonOrganic	630 / 8.471	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	630 / 8.471
1.1.23) ECP 6321R1 F/A-18 A-D Main Landing Gear Door Hinge Pins - NonOrganic	640 / 0.823	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	640 / 0.823
1.1.24) ECP JAX F-18-001 NFDS mods, C&D Conversion (Blue Angels) - NonOrganic	20 / 6.107	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 6.107
1.1.25) ECP XXX26 Structural Stress Corrosion Crack Issues - NonOrganic	- / -	- / -	60 / 3.235	60 / 3.293	- / -	60 / 3.293	60 / 2.710	60 / 3.412	26 / 1.510	40 / 2.335	169 / 10.180	475 / 26.675
1.1.26) ECP XXX27 F/A-18 A-D Subsystems Retrofit Upgrades Issues - NonOrganic	- / -	- / -	60 / 2.588	60 / 2.634	- / -	60 / 2.634	60 / 2.682	60 / 2.730	60 / 2.779	60 / 2.829	115 / 5.232	475 / 21.474
1.1.27) ECP XXX28 F/A-18 A-D ECS Subsystems Upgrade Issues - NonOrganic	- / -	- / -	60 / 1.586	60 / 1.614	- / -	60 / 1.614	60 / 1.643	60 / 1.673	60 / 1.703	60 / 1.734	115 / 3.206	475 / 13.159
1.1.28) ECP XXX29 F/A-18 A-D Fuel Related Upgrade Issues - Organic	- / -	- / -	60 / 0.634	60 / 0.646	- / -	60 / 0.646	60 / 0.657	60 / 0.669	- / -	60 / 0.693	175 / 1.952	475 / 5.251
1.1.29) ECP-XXX30 F/A-18 A-D Flight Control Surfaces Issues - NonOrganic	- / -	- / -	60 / 0.647	60 / 0.659	- / -	60 / 0.659	60 / 0.670	60 / 0.682	60 / 0.695	60 / 0.707	115 / 1.308	475 / 5.368
1.1.30) ECP-XXX33 - F/A-18 A-D NACES Retrofit Upgrades - Organic ⁽¹⁾	- / -	100 / 1.781	500 / 9.349	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 1.287	700 / 12.417
1.1.31) Archived ECPs - Organic	36,132 / 240.323	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36,132 / 240.323
Subtotal: Recurring	- / 301.022	- / 19.157	- / 29.647	- / 14.211	- / -	- / 14.211	- / 13.595	- / 14.420	- / 9.885	- / 15.661	- / 43.101	- / 460.699
Non-Recurring												
1.2.1) Installation Kits N/R - Organic	- / 63.388	- / 1.630	- / 1.258	- / 1.273	- / -	- / 1.273	- / 1.295	- / 2.260	- / 1.342	- / 1.367	- / 1.391	- / 75.204
Subtotal: Non-Recurring	- / 63.388	- / 1.630	- / 1.258	- / 1.273	- / -	- / 1.273	- / 1.295	- / 2.260	- / 1.342	- / 1.367	- / 1.391	- / 75.204
B Kits												
Recurring												
2.1.1) Installation Equipment - Organic	- / 2.267	- / 0.525	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.792
Subtotal: Recurring	- / 2.267	- / 0.525	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.792
Non-Recurring												

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)			
Models of Systems Affected: F/A-18 A/B/C/D				Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
2.2.1) Installation Equipment N/R - Organic	- / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.120	
<i>Subtotal: Non-Recurring</i>	- / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.120	
<i>Subtotal: Correction of Discrepancies (OSIP 11-84)</i>	41,088 / 366.797	1,634 / 21.312	1,899 / 30.905	736 / 15.484	- / -	736 / 15.484	689 / 14.890	559 / 16.680	296 / 11.227	430 / 17.028	1,479 / 44.492	48,810 / 538.815	
<i>Subtotal: Procurement, All Modification Items</i>	- / 366.797	- / 21.312	- / 30.905	- / 15.484	- / -	- / 15.484	- / 14.890	- / 16.680	- / 11.227	- / 17.028	- / 44.492	- / 538.815	
Support (All Modification Items)													
3.2) Data	- / 16.136	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.136	
3.4) Support Equipment	- / 20.405	- / 1.362	- / 2.300	- / 1.480	- / -	- / 1.480	- / 1.751	- / 1.879	- / 2.463	- / 1.126	- / 2.560	- / 35.326	
3.5) ILS	- / 359.303	- / 9.144	- / 8.133	- / 8.280	- / -	- / 8.280	- / 8.429	- / 8.580	- / 8.735	- / 8.892	- / 9.047	- / 428.543	
3.6) Other Support	- / 62.724	- / 18.054	- / 18.379	- / 18.710	- / -	- / 18.710	- / 19.047	- / 19.390	- / 19.739	- / 20.094	- / 20.455	- / 216.592	
3.8) Prior Year Installation Costs	29,310 / 244.901	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29,310 / 244.901	
<i>Subtotal: Support</i>	- / 703.469	- / 28.560	- / 28.812	- / 28.470	- / -	- / 28.470	- / 29.227	- / 29.849	- / 30.937	- / 30.112	- / 32.062	- / 941.498	
Installation													
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)	- / 18.483	- / 26.264	- / 29.576	- / 34.879	- / -	- / 34.879	- / 34.872	- / 38.574	- / 26.030	- / 21.648	- / 153.807	- / 384.133	
<i>Subtotal: Installation</i>	- / 18.483	- / 26.264	- / 29.576	- / 34.879	- / -	- / 34.879	- / 34.872	- / 38.574	- / 26.030	- / 21.648	- / 153.807	- / 384.133	
Total													
Total Cost (Procurement + Support + Installation)	1,088.749	76.136	89.293	78.833	-	78.833	78.989	85.103	68.194	68.788	230.361	1,864.446	

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series		Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)		
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)							
Manufacturer Information							
Manufacturer Name: CKA/NGC- ECP 1120NI Upper O/B Longeron Y453/Y508 Forward Section Splice				Manufacturer Location: Orange Park, FL; El Segundo, CA			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 36			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jul 2015	Jul 2016	Jul 2017				
Delivery Dates	Jul 2018	Jul 2019	Jul 2020				
Manufacturer Name: Boeing - ECP XXX27/28/30/F/A-18 A-D Structural Stress Corrosion Cracking Issues				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 9			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates		Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Boeing - ECP XXX26 Structural Stress Corrosion Crack Issues				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 21			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates		Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022
Manufacturer Name: CKA/Northrop Grumman (NGC) - ECP 1098NI F/A-18 A-D Y615 Former and Bootstrap				Manufacturer Location: Orange Park, FL; El Segundo, CA			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 20			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jul 2015	Jul 2016	Jul 2017	Jul 2018	Jul 2019	Jul 2020	Jul 2021
Delivery Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023
Manufacturer Name: Boeing - ECP 609 Inner Wing Conversion/ Modification - Fuel Improvements				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 18			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA- ECP 973/Fuel Cell Floor Crack				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series		Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)		
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)							
Manufacturer Information							
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Delivery Dates							
Manufacturer Name: CKA- ECP 1100/F/A-18 A-D Keel Beam Web Retrofit				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA - ECP 1101/INNER WING AFT CLOSURE RIB				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA- ECP 1102/F/A-18 A-D Y508 Former Shear Tie Fastener Holes Retrofit				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2015					
Delivery Dates		Oct 2017					
Manufacturer Name: CKA/NGC - ECP 1118NI F/A-18 A-D Y580.5/Y590.5 Former Replace Modline				Manufacturer Location: Orange Park, FL; El Segundo, CA			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 36			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019		Oct 2021
Delivery Dates	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022		Oct 2024
Manufacturer Name: CKA - ECP 1125 F/A-18 A-D Y470 Inner Wing Panel Lug				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 18			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Meggitt - ECP 1137/Redesign of Fire Extinguisher Temp. Compensating Pressure Switch				Manufacturer Location: Simi Valley, CA			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 24			

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)		
Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)							
Manufacturer Information							
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2015	Oct 2016					
Delivery Dates	Oct 2017	Oct 2018					
Manufacturer Name: CKA- ECP1142C1/Y394.2 LEX CONNECTING LINK Retrofit				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2015	Oct 2016	Oct 2017			
Delivery Dates		Oct 2016	Oct 2017	Oct 2018			
Manufacturer Name: CKA/NGC - ECP 1148NI Speed Brake Arresting Hook Actuator Fitting				Manufacturer Location: Orange Park, FL; El Segundo, CA			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2015						
Delivery Dates	Oct 2017						
Manufacturer Name: CKA - ECP-1155 NI Fuel Tank Four Cavity Foam Material Change				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 9			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Dec 2016	Dec 2017	Dec 2018		
Delivery Dates			Oct 2017	Oct 2018	Oct 2019		
Manufacturer Name: CKA- ECP 1159/Y557.5 BULKHEAD TUB RETROFIT				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates			Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Boeing - ECP 6217/Cockpit Pressurization Warning System (CPWS)				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 22			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: CKA - ECP 6321R1 F/A-18 A-D MLG Doors Hing Pins Hdw Conv				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 24			

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Manufacturer Information

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: CKA - ECP JAX F-18-001/NFDS MODS, C&D Conversion Manufacturer Location: Orange Park, FL

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: FRCSW - ECP 1034/Trailing Edge Flap/Aileron Attach Log Bushing Manufacturer Location: North Island, CA

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 8

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: Boeing - ECP 609 Inner Wing Conversion/ Modification Manufacturer Location: St. Louis, MO

Administrative Leadtime (in Months): 12 Production Leadtime (in Months): 24

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2015	Oct 2016					
Delivery Dates	Oct 2017	Oct 2018					

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 609 Inner Wing Conversion/ Modification - Fuel I

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	3 / 0.023	15 / 0.093	- / 0.000	15 / 0.093	15 / 0.095	9 / 0.072	5 / 0.041	- / -	- / 0.000	47 / 0.324
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 609 Inner Wing Conversion/ Modification - Fuel I

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	3 / 0.023	15 / 0.093	- / -	15 / 0.093	15 / 0.095	9 / 0.072	5 / 0.041	- / -	- / -	47 / 0.324

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	1	1	-	3	4	4	4	3	4	4	4	3	2	2	2	1	2	1	1	-	-	-	-	-	47
Out	-	-	-	-	-	1	1	1	-	3	4	4	4	3	4	4	4	3	2	2	2	1	2	1	1	-	-	-	-	-	47

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 609 Inner Wing Conversion/ Modification

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	3 / 0.457	12 / 1.751	- / 0.000	12 / 1.751	- / -	- / -	- / -	- / -	- / 0.000	15 / 2.208
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.783	- / -	- / -	- / -	- / -	12 / 1.783
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.332	- / -	- / -	- / -	12 / 1.332
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	3 / 0.457	12 / 1.751	- / -	12 / 1.751	12 / 1.783	12 / 1.332	- / -	- / -	- / -	39 / 5.323

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 609 Inner Wing Conversion/ Modification

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	1	1	1	-	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39
Out	-	-	-	-	-	1	1	1	-	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 973 Fuel Cell Floor Crack

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	95 / 4.680	36 / 2.326	36 / 2.124	33 / 1.982	- / 0.000	33 / 1.982	- / -	- / -	- / -	- / -	- / 0.000	200 / 11.112
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	95 / 4.680	36 / 2.326	36 / 2.124	33 / 1.982	- / -	33 / 1.982	- / -	- / -	- / -	- / -	- / -	200 / 11.112

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	95	9	9	9	9	9	9	9	9	9	8	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200
Out	95	9	9	9	9	9	9	9	9	9	8	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1034 NI Trailing Edge Flap/Aileron Attach Log Bu

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	50 / 0.435	120 / 0.752	120 / 0.765	- / 0.000	120 / 0.765	120 / 0.644	120 / 0.714	84 / 0.510	- / -	- / 0.000	614 / 3.820

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1034 NI Trailing Edge Flap/Aileron Attach Log Bu

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	50 / 0.435	120 / 0.752	120 / 0.765	- / -	120 / 0.765	120 / 0.644	120 / 0.714	84 / 0.510	- / -	- / -	614 / 3.820

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	13	13	12	12	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	21	21	21	21	-	-	-	-	-	614
Out	-	13	13	12	12	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	21	21	21	21	-	-	-	-	-	614

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1098NI F/A-18 A-D Y615 Former and Bootstrap Retr

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	23 / 0.911	38 / 2.128	50 / 2.021	19 / 0.782	- / 0.000	19 / 0.782	- / -	- / -	- / -	- / -	- / 0.000	130 / 5.842
FY 2015	- / -	- / -	- / -	31 / 1.275	- / -	31 / 1.275	19 / 0.796	- / -	- / -	- / -	- / -	50 / 2.071
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	31 / 1.298	19 / 0.810	- / -	- / -	- / -	50 / 2.108
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 1.322	19 / 0.825	- / -	- / -	50 / 2.147
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 1.345	19 / 0.839	- / -	50 / 2.184
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 1.370	19 / 0.811	50 / 2.181
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 2.132	50 / 2.132
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 2.132	50 / 2.132
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 1.918	45 / 1.918
Total	23 / 0.911	38 / 2.128	50 / 2.021	50 / 2.057	- / -	50 / 2.057	50 / 2.094	50 / 2.132	50 / 2.170	50 / 2.209	164 / 6.993	525 / 22.715

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1098NI F/A-18 A-D Y615 Former and Bootstrap Retr

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	23	9	9	10	10	12	12	13	13	4	5	20	21	10	9	15	16	10	9	15	16	10	9	15	16	10	9	15	16	164	525
Out	23	9	9	10	10	12	12	13	13	4	5	20	21	10	9	15	16	10	9	15	16	10	9	15	16	10	9	15	16	164	525

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1100 F/A-18 A-D Keel Beam Web Retrofit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	10 / 0.166	38 / 0.881	40 / 0.943	40 / 0.960	- / 0.000	40 / 0.960	40 / 0.952	21 / 0.509	- / -	- / -	- / 0.000	189 / 4.411
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10 / 0.166	38 / 0.881	40 / 0.943	40 / 0.960	- / -	40 / 0.960	40 / 0.952	21 / 0.509	- / -	- / -	- / -	189 / 4.411

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	10	10	10	10	8	10	10	10	10	10	10	10	10	10	10	10	10	10	11	-	-	-	-	-	-	-	-	-	-	-	189
Out	10	10	10	10	8	10	10	10	10	10	10	10	10	10	10	10	10	10	11	-	-	-	-	-	-	-	-	-	-	-	189

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1101 Inner Wing AFT Closure Rib

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	12 / 0.577	30 / 1.469	30 / 1.495	- / 0.000	30 / 1.495	13 / 0.457	- / -	- / -	- / -	- / 0.000	85 / 3.998

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1101 Inner Wing AFT Closure Rib

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	12 / 0.577	30 / 1.469	30 / 1.495	- / -	30 / 1.495	13 / 0.457	- / -	- / -	- / -	- / -	85 / 3.998

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	6	6	-	-	10	10	10	-	10	10	10	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85
Out	-	-	6	6	-	-	10	10	10	-	10	10	10	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85	

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1102 Y508 Former Shear Tie Fastener Holes Retrof

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	118 / 1.726	83 / 2.389	125 / 3.134	125 / 3.191	- / 0.000	125 / 3.191	74 / 1.838	- / -	- / -	- / -	- / 0.000	525 / 12.278
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	83 / 1.759	- / -	- / -	- / -	- / -	83 / 1.759
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	118 / 1.726	83 / 2.389	125 / 3.134	125 / 3.191	- / -	125 / 3.191	157 / 3.597	- / -	- / -	- / -	- / -	608 / 14.037

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1102 Y508 Former Shear Tie Fastener Holes Retrof

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	118	20	21	21	21	31	31	31	32	31	31	31	32	38	40	40	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	608
Out	118	20	21	21	21	31	31	31	32	31	31	31	32	38	40	40	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	608

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1118NI F/A-18 A-D Y580.5/Y590.5 Former Replaceme

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	44 / 14.522	30 / 10.029	36 / 12.112	- / 0.000	36 / 12.112	30 / 10.393	- / -	- / -	- / -	- / 0.000	140 / 47.056
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	60 / 20.820	- / -	- / -	- / -	- / -	60 / 20.820
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 12.492	- / -	- / -	36 / 12.492
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 10.410	- / -	30 / 10.410
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 10.650	30 / 10.650
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 10.650	30 / 10.650
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 21.300	60 / 21.300
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	180 / 63.261	180 / 63.261
Total	- / -	44 / 14.522	30 / 10.029	36 / 12.112	- / -	36 / 12.112	30 / 10.393	60 / 20.820	36 / 12.492	30 / 10.410	300 / 105.861	566 / 196.639

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	11	11	11	11	7	7	8	8	9	9	9	9	7	7	8	8	15	15	15	15	9	9	9	9	7	7	8	8	300	566
Out	-	11	11	11	11	7	7	8	8	9	9	9	9	7	7	8	8	15	15	15	15	9	9	9	9	7	7	8	8	300	566

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1120NI F/A-18 A-D Upper O/B Longeron Y453/Y508 F

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	62 / 2.581	- / 0.000	62 / 2.581	58 / 2.457	- / -	- / -	- / -	- / 0.000	120 / 5.038

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1120NI F/A-18 A-D Upper O/B Longeron Y453/Y508 F

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.170	46 / 1.985	- / -	- / -	- / -	50 / 2.155
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.690	35 / 1.404	- / -	- / -	51 / 2.094
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.442	- / -	- / -	11 / 0.442
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	62 / 2.581	- / -	62 / 2.581	62 / 2.627	62 / 2.675	46 / 1.846	- / -	- / -	232 / 9.729

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	31	31	29	29	-	4	23	23	-	16	17	18	-	11	-	-	-	-	-	232
Out	-	-	-	-	-	-	-	-	-	-	-	31	31	29	29	-	4	23	23	-	16	17	18	-	11	-	-	-	-	-	232

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1125 F/A-18 A-D Y470 Inner Wing Panel Lug

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	32 / 0.560	40 / 0.712	40 / 0.725	- / 0.000	40 / 0.725	40 / 0.738	32 / 0.451	- / -	- / -	- / 0.000	184 / 3.186
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	32 / 0.560	40 / 0.712	40 / 0.725	- / -	40 / 0.725	40 / 0.738	32 / 0.451	- / -	- / -	- / -	184 / 3.186

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1125 F/A-18 A-D Y470 Inner Wing Panel Lug

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	8	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	8	8	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	184
Out	-	8	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	8	8	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	184

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1137NI Fire Extinguisher Temp Compensating Press

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	160 / 0.249	- / 0.000	160 / 0.249	- / -	- / -	- / -	- / -	- / 0.000	160 / 0.249
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	269 / 0.426	- / -	- / -	- / -	- / -	269 / 0.426
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	190 / 0.300	- / -	- / -	- / -	190 / 0.300
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	160 / 0.249	- / -	160 / 0.249	269 / 0.426	190 / 0.300	- / -	- / -	- / -	619 / 0.975

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	40	40	40	40	67	67	67	68	47	47	48	48	-	-	-	-	-	-	-	-	-	619
Out	-	-	-	-	-	-	-	-	-	40	40	40	40	67	67	67	68	47	47	48	48	-	-	-	-	-	-	-	-	-	619

Method of Implementation: [none specified]:: Installation Name: ECP 1142

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	42 / 0.040	204 / 0.176	242 / 0.212	118 / 0.155	- / 0.000	118 / 0.155	- / -	- / -	- / -	- / -	- / 0.000	606 / 0.583

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP 1142

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	240 / 0.217	- / -	240 / 0.217	- / -	- / -	- / -	- / -	- / -	240 / 0.217
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	161 / 0.114	- / -	- / -	- / -	- / -	161 / 0.114
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	125 / 0.060	- / -	- / -	- / -	125 / 0.060
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	42 / 0.040	204 / 0.176	242 / 0.212	358 / 0.372	- / -	358 / 0.372	161 / 0.114	125 / 0.060	- / -	- / -	- / -	1,132 / 0.974

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	42	50	50	52	52	61	61	60	60	89	89	90	90	40	40	40	41	31	31	31	32	-	-	-	-	-	-	-	-	-	-	-	-	-	1,132
Out	42	50	50	52	52	61	61	60	60	89	89	90	90	40	40	40	41	31	31	31	32	-	-	-	-	-	-	-	-	-	-	-	-	-	1,132

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1148NI Speed Brake Arresting Hook Actuator Fitt

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	60 / 0.760	120 / 1.548	120 / 1.576	- / 0.000	120 / 1.576	8 / 0.104	- / -	- / -	- / -	- / 0.000	308 / 3.988
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	62 / 0.805	- / -	- / -	- / -	- / -	62 / 0.805
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	60 / 0.760	120 / 1.548	120 / 1.576	- / -	120 / 1.576	70 / 0.909	- / -	- / -	- / -	- / -	370 / 4.793

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy															Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0525 / F-18 Series										Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)											

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1148NI Speed Brake Arresting Hook Actuator Fitt

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	-	15	15	15	15	30	30	30	30	30	30	30	30	17	17	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	370
Out	-	15	15	15	15	30	30	30	30	30	30	30	30	17	17	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	370

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-1155 NI Fuel Tank Four Cavity Foam Material Chan

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	36 / 0.023	144 / 0.095	- / -	- / -	- / -	2 / 0.001	- / -	- / -	- / -	- / 0.000	182 / 0.119
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	142 / 0.097	2 / 0.001	- / -	- / -	- / -	144 / 0.098
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	142 / 0.098	2 / 0.001	- / -	- / -	144 / 0.099
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	139 / 0.096	- / -	- / -	139 / 0.096
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	36 / 0.023	144 / 0.095	- / -	- / -	- / -	144 / 0.098	144 / 0.099	141 / 0.097	- / -	- / -	609 / 0.412

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	9	9	9	9	36	36	36	36	-	-	-	-	36	36	36	36	36	36	36	36	35	36	35	35	-	-	-	-	-	-	609
Out	-	9	9	9	9	36	36	36	36	-	-	-	-	36	36	36	36	36	36	36	36	35	36	35	35	-	-	-	-	-	-	609

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1159 - Y557.5 Bulkhead Tub Retrofit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	100 / 4.581	- / -	- / -	- / -	2 / 0.095	- / -	- / -	- / -	- / 0.000	102 / 4.676

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1159 - Y557.5 Bulkhead Tub Retrofit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.901	- / -	- / -	- / -	- / -	40 / 1.901
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.934	- / -	- / -	- / -	40 / 1.934
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.969	- / -	- / -	40 / 1.969
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.999	- / -	40 / 1.999
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.918	40 / 1.918
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	285 / 13.668	285 / 13.668
Total	- / -	- / -	100 / 4.581	- / -	- / -	- / -	42 / 1.996	40 / 1.934	40 / 1.969	40 / 1.999	325 / 15.586	587 / 28.065

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	25	25	25	25	-	-	-	-	11	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	325	587
Out	-	-	-	-	-	25	25	25	25	-	-	-	-	11	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	325	587

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 6217 Cockpit Pressurization Warning System

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	627 / 4.965	3 / 0.037	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	630 / 5.002
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	627 / 4.965	3 / 0.037	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	630 / 5.002

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 6217 Cockpit Pressurization Warning System

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	627	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	630
Out	627	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	630

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 6321R1 F/A-18 A-D Main Landing Gear Door Hinge P

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 0.031	150 / 0.701	150 / 0.714	150 / 0.726	- / 0.000	150 / 0.726	150 / 0.739	29 / 0.135	- / -	- / -	- / 0.000	640 / 3.046
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 0.031	150 / 0.701	150 / 0.714	150 / 0.726	- / -	150 / 0.726	150 / 0.739	29 / 0.135	- / -	- / -	- / -	640 / 3.046

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	11	37	37	38	38	37	37	38	38	37	37	38	38	37	37	38	38	7	7	8	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	640
Out	11	37	37	38	38	37	37	38	38	37	37	38	38	37	37	38	38	7	7	8	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	640

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP JAX F-18-001 NFDS mods, C&D Conversion (Blue Ang)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	15 / 5.964	2 / 0.749	2 / 0.762	1 / 0.388	- / 0.000	1 / 0.388	- / -	- / -	- / -	- / -	- / 0.000	20 / 7.863

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP JAX F-18-001 NFDS mods, C&D Conversion (Blue Ang)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 5.964	2 / 0.749	2 / 0.762	1 / 0.388	- / -	1 / 0.388	- / -	- / -	- / -	- / -	- / -	20 / 7.863

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	15	-	1	1	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	
Out	15	-	1	1	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20		

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP XXX26 Structural Stress Corrosion Crack Issues

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	60 / 3.286	- / -	- / -	- / -	- / -	60 / 3.286
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 3.345	- / -	- / -	- / -	60 / 3.345
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 2.838	- / -	- / -	60 / 2.838
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 2.889	- / -	60 / 2.889
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 1.502	26 / 1.502
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 2.340	40 / 2.340
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	169 / 9.871	169 / 9.871
Total	- / -	- / -	- / -	- / -	- / -	- / -	60 / 3.286	60 / 3.345	60 / 2.838	60 / 2.889	235 / 13.713	475 / 26.071

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP XXX26 Structural Stress Corrosion Crack Issues

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	235	475
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	235	475	

Method of Implementation: [none specified]:: Installation Name: ECPs XXX26-XXX28, XXX30

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	180 / 3.856	- / -	180 / 3.856	- / -	- / -	- / -	- / -	- / -	180 / 3.856
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	180 / 3.924	- / -	- / -	- / -	- / -	180 / 3.924
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	180 / 3.996	- / -	- / -	- / -	180 / 3.996
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	180 / 4.067	- / -	- / -	180 / 4.067
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	180 / 4.141	- / -	180 / 4.141
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	180 / 3.994	180 / 3.994
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	345 / 7.660	345 / 7.660
Total	- / -	- / -	- / -	180 / 3.856	- / -	180 / 3.856	180 / 3.924	180 / 3.996	180 / 4.067	180 / 4.141	525 / 11.654	1,425 / 31.638

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	-	-	-	-	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	525	1,425		
Out	-	-	-	-	-	-	-	-	-	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	525	1,425

Method of Implementation (Organic): ECP 590 OBOGS SSOM, Safety ECP

Installation Quantity: 335

Method of Implementation (Organic): ECP 615 F/A-18 A-D GGU12/A Oxygen Concentrators Upgrade

Installation Quantity: 435

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Correction of Discrepancies (OSIP 11-84)

Modification Item 1 of 1: Correction of Discrepancies (OSIP 11-84)

Installation Information

Method of Implementation (Organic): ECP-1139 Aircraft Ground Servicing Engine Inlet Screen	Installation Quantity: 320
Method of Implementation (Organic): ECP 1140NI Aileron Servocylnr Main Ram Linear Var Displacement	Installation Quantity: 617
Method of Implementation (Organic): ECP XXX29 F/A-18 A-D Fuel Related Upgrade Issues	Installation Quantity: 475
Method of Implementation (Organic): ECP-XXX33 - F/A-18 A-D NACES Retrofit Upgrades	Installation Quantity: 700
Method of Implementation (Organic): Archived ECPs - Not Installed	Installation Quantity: 36132

Footnotes:
⁽¹⁾ Variants include single and dual seats, therefore some aircraft require 2 kits.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 2 / Digital Communications System (DCS) (OSIP 10-99)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	89.100	10.780	12.359	17.623	-	17.623	21.486	31.457	10.810	10.990	-	204.605
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	89.100	10.780	12.359	17.623	-	17.623	21.486	31.457	10.810	10.990	-	204.605
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	89.100	10.780	12.359	17.623	-	17.623	21.486	31.457	10.810	10.990	-	204.605
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Digital Communications System (DCS) consists of an upgraded AN/ARC-210 Receiver Transmitter (RT) (with embedded digital message transfer capability and embedded communications security) installed in the F/A-18 and integrated with the F/A-18 weapons system (mission computer, controls and displays, and communication subsystem). The DCS utilizes preformatted messages to communicate with standard United States Marine Corps, United States Navy, and United States Air Force digital communications devices to facilitate close air support, deep air strike, and tactical air control missions. Joint Staff has specified new requirements for close air support platforms to improve interoperability between air and ground units in Digitally-Aided Close Air Support (DACAS) missions. These requirements are being satisfied with the upgrade of the DCS radio to the latest ARC-210 version, the RT-1990 radio. DCS reduces voice communications requirements which tend to be slow, inaccurate, and susceptible to Meaconing, Interference, Jamming, and Intrusion. DCS will enhance mission effectiveness by decreasing pilot workload which allows the pilot more time to counter increased threat capabilities (operational requirements document# 486-88-98). The RT-1990 radio also supports the North Atlantic Treaty Organization (NATO) standard anti-jam waveform, second generation anti-jam tactical UHF radio for NATO, and will greatly improve communication in a jamming environment as compared to current anti-jam waveforms. The next version of ARC-210, RT-1990A, and the next version of the Comm1 external encryptor, KY-58M, will support National Security Agency cryptographic modernization mandates and the instruction CJCSI 6510.02E Cryptographic Modernization Planning. This operational safety improvement program will also be used to address parts obsolescence issues and to perform non-recurring work associated with network centric operations and interoperability requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The AN/ARC-210 RT is being upgraded to a DCS RT-1990/RT-1990A. The initial engineering developmental model was delivered (using Research Development Test & Evaluation, Navy resources) in FY2013 as scheduled. The F/A-18E/F and EA-18G Joint Staff requirements will be satisfied by retrofitting the RT-1990 under the H10 SCS. The cryptographic modernization mandates will be satisfied by retrofitting the RT-1990A under the H14 SCS. The legacy F/A-18 Joint Staff requirements will be satisfied by retrofitting the RT-1990A under the 27C SCS. The Comm1 external encryptor, KY-58, will be upgraded to KY-58M VACM for all F/A-18 aircraft.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 2 / Digital Communications System (DCS) (OSIP 10-99)			
Models of Systems Affected: F/A-18 and EA-18G				Modification Type: CAPABILITY IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Digital Communications System (DCS) (OSIP 10-99)</i>													
A Kits													
Recurring													
1.1.1) A-Kits Archive - Organic	483 / 1.795	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	483 / 1.795	
<i>Subtotal: Recurring</i>	- / 1.795	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.795	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 0.603	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.603	
<i>Subtotal: Non-Recurring</i>	- / 0.603	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.603	
B Kits													
Recurring													
2.1.1) SCS Integration USMC DCS - Organic	- / 4.552	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.552	
2.1.2) Gen 5 Radio Conversion (RT-1939 to RT-1990) - Organic	4 / 0.018	2 / 0.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.028	
2.1.3) Gen 5 Radio (RT-1990/A) - Organic ⁽²⁾	245 / 21.470	15 / 1.150	27 / 2.095	141 / 11.217	- / -	141 / 11.217	212 / 17.241	332 / 27.486	82 / 6.911	88 / 7.550	- / -	1,142 / 95.120	
2.1.4) 25X SCS - Organic	- / 0.326	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.326	
2.1.5) 27C SCS - Organic	- / 6.008	- / 3.772	- / 3.189	- / 0.249	- / -	- / 0.249	- / -	- / -	- / -	- / -	- / -	- / 13.218	
2.1.6) 29C SCS - Organic	- / -	- / 0.320	- / 0.900	- / 0.300	- / -	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / 1.520	
2.1.7) H10 SCS - Organic	- / 15.809	- / 0.205	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.014	
2.1.8) H12 SCS - Organic	- / 1.829	- / 0.728	- / 1.500	- / 1.500	- / -	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / 5.557	
2.1.9) H14 SCS - Organic	- / -	- / -	- / 1.323	- / 1.174	- / -	- / 1.174	- / 0.521	- / 0.189	- / -	- / -	- / -	- / 3.207	
2.1.10) H16 SCS - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.520	- / 0.520	- / 0.579	- / -	- / -	- / 1.619	
2.1.11) SCS DCS B-kits - Organic	- / 1.793	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.793	
2.1.12) B-Kits Archive - Organic	176 / 11.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	176 / 11.250	
2.1.13) Prior Year Installation Costs - Organic	528 / 6.779	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	528 / 6.779	
<i>Subtotal: Recurring</i>	- / 69.834	- / 6.185	- / 9.007	- / 14.440	- / -	- / 14.440	- / 18.282	- / 28.195	- / 7.490	- / 7.550	- / -	- / 160.983	
Non-Recurring													
2.2.1) Install Equipment N/R - Organic	- / 6.843	- / 3.481	- / 0.282	- / 0.036	- / -	- / 0.036	- / -	- / -	- / -	- / -	- / -	- / 10.642	
<i>Subtotal: Non-Recurring</i>	- / 6.843	- / 3.481	- / 0.282	- / 0.036	- / -	- / 0.036	- / -	- / -	- / -	- / -	- / -	- / 10.642	
<i>Subtotal: Digital Communications System (DCS) (OSIP 10-99)</i>	1,436 / 79.075	17 / 9.666	27 / 9.289	141 / 14.476	- / -	141 / 14.476	212 / 18.282	332 / 28.195	82 / 7.490	88 / 7.550	- / -	2,335 / 174.023	
<i>Subtotal: Procurement, All Modification Items</i>	- / 79.075	- / 9.666	- / 9.289	- / 14.476	- / -	- / 14.476	- / 18.282	- / 28.195	- / 7.490	- / 7.550	- / -	- / 174.023	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 2 / Digital Communications System (DCS) (OSIP 10-99)			
Models of Systems Affected: F/A-18 and EA-18G				Modification Type: CAPABILITY IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 0.483	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.483	
3.2) Data	- / 0.028	- / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.061	- / -	- / 0.239	
3.3) Training Equipment	- / 1.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.165	
3.4) Support Equipment	- / 1.013	- / -	- / -	- / 0.022	- / -	- / 0.022	- / 0.022	- / 0.023	- / 0.023	- / 0.023	- / -	- / 1.126	
3.5) ILS	- / 14.267	- / 0.188	- / 0.160	- / 0.163	- / -	- / 0.163	- / 0.166	- / 0.169	- / 0.172	- / 0.175	- / -	- / 15.460	
3.6) Other Support	- / 3.069	- / 0.776	- / 2.910	- / 2.962	- / -	- / 2.962	- / 3.016	- / 3.070	- / 3.125	- / 3.181	- / -	- / 22.109	
Subtotal: Support	- / 10.025	- / 1.114	- / 3.070	- / 3.147	- / -	- / 3.147	- / 3.204	- / 3.262	- / 3.320	- / 3.440	- / -	- / 30.582	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	89.100	10.780	12.359	17.623	-	17.623	21.486	31.457	10.810	10.990	-	204.605	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 2 / Digital Communications System (DCS) (OSIP 10-99)
<i>Modification Item 1 of 1:</i> Digital Communications System (DCS) (OSIP 10-99)		
Installation Information		
Method of Implementation (Organic): A-Kits Archive - Not Installed		Installation Quantity: 483
Method of Implementation (Organic): Gen 5 Radio Conversion (RT-1939 to RT-1990) - Not Installed		Installation Quantity: 6
Method of Implementation (Organic): Gen 5 Radio (RT-1990/A) - Not Installed		Installation Quantity: 1142
Method of Implementation (Organic): B-Kits Archive		Installation Quantity: 176
Method of Implementation (Organic): Prior Year Installation Costs - Not Installed		Installation Quantity: 528

Footnotes:

⁽²⁾ The "Gen 5 Radio (RT-1990/A)" kits will replace the previously appropriated DCS (RT-1824) kits.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,039.753	82.619	101.989	122.375	-	122.375	136.576	156.357	157.261	150.325	1,218.864	3,166.119
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,039.753	82.619	101.989	122.375	-	122.375	136.576	156.357	157.261	150.325	1,218.864	3,166.119
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,039.753	82.619	101.989	122.375	-	122.375	136.576	156.357	157.261	150.325	1,218.864	3,166.119

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Incorporation of structural enhancements and changes is required to attain F/A-18 service life and maintain sufficient aircraft inventory to meet fleet operational requirements through FY 2030. Structural enhancements and changes include resolution of discrepancies identified as a result of structural test-16 and in-service experience. These Service Life Extension Program (SLEP) enhancements and changes to extend the life from 6,000 hours to 10,000 hours include: modifications to allow the entire airframe to extend flight hours; modifications to ensure structures currently limited to 78% of design life can achieve 100% life; modifications to ensure landing gear, catapult and attachment components can extend total landings. The unacceptable alternative to retrofitting would be the failure to reach full fatigue life for these aircraft and to not correct the structural defects discovered on fatigue test articles. In many cases, the mission capability of the aircraft would be adversely affected in addition to its reduced service life. As a result, aircraft may be prematurely removed from useful service. Center Barrel Replacement Plus (CBR+) is applicable to F/A-18A/B/C/Ds. Engineering Change Proposal (ECP) 904 Part 1 is the basic center barrel kit. ECP 904 Part 2 is required to extend Wing Root Fatigue Life Expended (WRFLE) and is not required for all aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Currently all Lot VI through XVII aircraft have 78% life limits without the structural life management plan modifications to bring them to 100% airframe life. McDonnell Douglas Corporation and Northrop Grumman Corporation developed ECP536 retrofit repair to modify these aircraft so they could restore the airframe to full life. ECP 536 was approved and validation was completed May 2001. The Fleet Readiness Center North Island developed ECP 904NI (CBR+) which was approved on 27 April 2000, ECP 904NI supersedes ECP 536. Validation started October 2000 and was completed in August 2001. Verification started August 2001 and was completed June 2002.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Models of Systems Affected: F/A-18 A/B/C/D	Modification Type: SAFETY / LIFE EXTENSION	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+												
A Kits												
Recurring												
1.1.1) CBR ECP 904 Part 1 (Basic) WRFLE SLEP - Night Attack - NonOrganic ⁽³⁾	233 / 203.434	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	233 / 203.434
1.1.2) CBR+ ECP 904 Part 1 (Basic) WRFLE SLEP - Day Attack - NonOrganic ⁽⁴⁾	117 / 110.975	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	117 / 110.975
1.1.3) CBR ECP 904 Part 1 Loose parts - Organic	23 / 2.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 2.820
1.1.4) CBR+ ECP 904 Part 2 (Need Part 1) - NonOrganic ⁽⁵⁾	160 / 72.822	8 / 0.194	8 / 0.160	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	176 / 73.176
1.1.5) ECP 1099 NLG Retract Actuator Supports (AFC-579) - NonOrganic	4 / 0.073	2 / 0.037	2 / 0.038	2 / 0.039	- / -	2 / 0.039	2 / 0.039	2 / 0.040	2 / 0.041	2 / 0.042	- / -	18 / 0.349
1.1.6) ECP XXFCF09 Floor Segment -Fuel Bay, Ctr, Y374.8-Y453 - NonOrganic	- / -	- / -	2 / 0.007	20 / 0.075	- / -	20 / 0.075	19 / 0.072	20 / 0.078	11 / 0.043	11 / 0.044	67 / 0.247	150 / 0.566
1.1.7) ECP XXW02 Rib, Wing, Outer-Canted XW179.700 - NonOrganic	- / -	- / -	2 / 0.162	20 / 1.654	- / -	20 / 1.654	19 / 1.600	20 / 1.714	11 / 0.960	11 / 0.977	67 / 6.059	150 / 13.126
1.1.8) ECP XXACF03 Plate,Structural, Aircraft-Duct,Y526.000 to Y557.500 - NonOrganic	- / -	- / -	2 / 0.027	20 / 0.273	- / -	20 / 0.273	19 / 0.264	20 / 0.283	11 / 0.158	11 / 0.161	67 / 0.999	150 / 2.165
1.1.9) ECP XXACF04 Plate, Structural, Aircraft-Fus Ctr Sect, Y544.000 - NonOrganic	- / -	- / -	2 / 0.054	20 / 0.545	- / -	20 / 0.545	20 / 0.555	19 / 0.537	11 / 0.316	11 / 0.322	67 / 1.998	150 / 4.327
1.1.10) ECP XXW03 Spar, Wing, Outer-53.8% - NonOrganic	- / -	- / -	2 / 0.174	20 / 1.769	- / -	20 / 1.769	20 / 1.801	19 / 1.741	11 / 1.026	11 / 1.045	67 / 6.478	150 / 14.034
1.1.11) ECP XXACF07 Support, Floor-Fuel Bay, Y518.000 to Y557.500 - NonOrganic	- / -	- / -	- / -	2 / 0.045	- / -	2 / 0.045	20 / 0.463	19 / 0.448	11 / 0.264	11 / 0.269	87 / 2.164	150 / 3.653
1.1.12) ECP XXACF08 Support,Floor-Fuel Bay,Y488.000 to Y526.000 - NonOrganic	- / -	- / -	- / -	2 / 0.027	- / -	2 / 0.027	20 / 0.278	19 / 0.269	11 / 0.158	11 / 0.161	87 / 1.298	150 / 2.191
1.1.13) ECP XXACF09 Longeron-Attach, Fuel Bay Floor to Keel, Y488 to Y526 - NonOrganic	- / -	- / -	- / -	2 / 0.029	- / -	2 / 0.029	20 / 0.292	19 / 0.282	11 / 0.166	11 / 0.169	87 / 1.363	150 / 2.301
1.1.14) ECP XXW04 Spar Assy-Wing, Outer 68 % - NonOrganic	- / -	- / -	- / -	2 / 0.164	- / -	2 / 0.164	20 / 1.673	19 / 1.618	11 / 0.953	11 / 0.971	87 / 7.814	150 / 13.193
1.1.15) ECP XXACF11 Support, Floor-Fuel Bay, Y478.500 - NonOrganic	- / -	- / -	- / -	2 / 0.291	- / -	2 / 0.291	20 / 2.964	19 / 2.867	10 / 1.536	11 / 1.720	88 / 14.007	150 / 23.385
1.1.16) ECP XXW01 Support, Structural Component, Aircraft-Outbd Pylon - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.735	10 / 3.740	11 / 4.188	127 / 49.228	150 / 57.891
1.1.17) ECP XXW06 Fitting-Splice, Fwd, Spar No 1 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.059	10 / 0.300	11 / 0.336	127 / 3.949	150 / 4.644

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Models of Systems Affected: F/A-18 A/B/C/D **Modification Type:** SAFETY / LIFE EXTENSION **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
1.1.18) ECP XXW07 Splice Plate-Outbd, Lwr, Inner Wing, XW134.464 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.138	10 / 0.701	11 / 0.785	127 / 9.225	150 / 10.849
1.1.19) ECP XXW08 Splice Plate-Outbd, Upr, Inner Wing, XW134.464 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.138	10 / 0.701	11 / 0.785	127 / 9.225	150 / 10.849
1.1.20) ECP XXW09 Splice Plate-Inbd, Lower, Inner Wing, XW88.121 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.302	10 / 1.539	11 / 1.723	127 / 20.254	150 / 23.818
1.1.21) ECP XXW10 Splice Plate-Inbd, Upr, Inner Wing, XW88.121 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.735	10 / 3.740	11 / 4.188	127 / 49.228	150 / 57.891
1.1.22) ECP XXW11 Rib-Aft, Wing, Inner, XW84.720 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.059	10 / 0.300	11 / 0.336	127 / 3.949	150 / 4.644
1.1.23) ECP XXW12 Fitting-Splice, Aft, Spar No 1 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.138	10 / 0.701	11 / 0.785	127 / 9.225	150 / 10.849
1.1.24) ECP XXW27 Spar-Fwd, Wing Panel, Inner - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.138	10 / 0.701	11 / 0.785	127 / 9.225	150 / 10.849
1.1.25) ECP XXW20 Spar, Wing, Outer-Intmd, No. 2 - NonOrganic	- / -	- / -	2 / 0.130	20 / 1.325	- / -	20 / 1.325	20 / 1.349	19 / 1.304	10 / 0.699	11 / 0.783	68 / 4.925	150 / 10.515
1.1.26) ECP XXW21 Spar, Wing, Outer-Intermediate No. 1 - NonOrganic	- / -	- / -	2 / 0.130	20 / 1.325	- / -	20 / 1.325	20 / 1.349	19 / 1.304	10 / 0.699	11 / 0.783	68 / 4.925	150 / 10.515
1.1.27) ECP XXACF13 Support, Floor-Fus Ctr Section, Y544.000 - NonOrganic	- / -	- / -	- / -	2 / 0.184	- / -	2 / 0.184	20 / 1.875	19 / 1.813	10 / 0.972	11 / 1.088	88 / 8.860	150 / 14.792
1.1.28) ECP XXACF14 Former,Fuselage Upr,Ctr Section Y534.000 - NonOrganic	- / -	- / -	- / -	2 / 0.057	- / -	2 / 0.057	20 / 0.578	19 / 0.559	10 / 0.299	11 / 0.335	88 / 2.731	150 / 4.559
1.1.29) ECP XXACF15 Former-Fus Ctr Sect, Side Hoisting, Y534.000 - NonOrganic	- / -	- / -	- / -	2 / 0.066	- / -	2 / 0.066	20 / 0.667	19 / 0.645	10 / 0.346	11 / 0.387	88 / 3.152	150 / 5.263
1.1.30) ECP XXACF17 Former-Fus Ctr Sect, Upper,Y508.000 - NonOrganic	- / -	- / -	- / -	2 / 0.177	- / -	2 / 0.177	20 / 1.802	19 / 1.743	10 / 0.934	11 / 1.046	88 / 8.517	150 / 14.219
1.1.31) ECP XXACF18 Former Segment-Fus Ctr Sect, Upper, Y497.000 - NonOrganic	- / -	- / -	- / -	2 / 0.177	- / -	2 / 0.177	20 / 1.802	19 / 1.743	14 / 1.307	11 / 1.046	84 / 8.130	150 / 14.205
1.1.32) ECP XXACF16 Former-Upper Segment Y518.000 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.019	20 / 0.198	10 / 0.101	11 / 0.113	107 / 1.119	150 / 1.550
1.1.33) ECP XXACF21 Longeron-Fus Ctr Sect, Side, Y453.02-Y542.60 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.047	20 / 0.476	10 / 0.242	11 / 0.271	107 / 2.685	150 / 3.721
1.1.34) ECP XXW15 Intercostal-Wing, Inner, Y488.000 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.198	10 / 1.010	11 / 1.131	127 / 13.290	150 / 15.629
1.1.35) ECP XXW16 Web-Intercostal, Wing, Inner, Y488.00 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.032	10 / 0.162	11 / 0.181	127 / 2.126	150 / 2.501
1.1.36) ECP XXW17 Intercostal-Wing, Inner, Y470.50 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.048	10 / 0.242	11 / 0.271	127 / 3.190	150 / 3.751
1.1.37) ECP XXACF24 Longeron-Lower Inbd Y488.000 to Y557.500 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.048	10 / 0.242	11 / 0.271	127 / 3.190	150 / 3.751

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Models of Systems Affected: F/A-18 A/B/C/D **Modification Type:** SAFETY / LIFE EXTENSION **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
1.1.38) ECP XXACF25 Former- Fus Ctr Sect, Upper, Y462.250 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.034	10 / 0.172	11 / 0.192	127 / 2.259	150 / 2.657
1.1.39) ECP XXACF26 Former - Fus Ctr Sect, Upper, Y478.500 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.019	10 / 0.095	11 / 0.106	127 / 1.251	150 / 1.471
1.1.40) ECP XXW22 Rib-Outbd, Actr Backup, Wing, Inner, XW91.360 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.495	10 / 2.521	11 / 2.822	127 / 33.173	150 / 39.011
1.1.41) ECP XXW23 Rib-Outbd, Actr Backup, Wing, Inner, XW85.220 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.495	10 / 2.521	11 / 2.822	127 / 33.173	150 / 39.011
1.1.42) ECP XXW25 Rib-Inbd, Actr Backup, Wing, Inner, XW85.220 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.534	10 / 2.718	11 / 3.043	127 / 35.769	150 / 42.064
1.1.43) ECP XXW26 Rib-Inbd, Actr Backup, Wing, Inner XW91.360 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.495	10 / 2.521	11 / 2.822	127 / 33.173	150 / 39.011
1.1.44) ECP XXFFL02 Spt Assy-Outbd, Aft, LE Ext, LH, Aft (see 74A200932 RH) - NonOrganic	- / -	- / -	2 / 0.198	20 / 2.020	- / -	20 / 2.020	20 / 2.056	20 / 2.093	10 / 1.065	12 / 1.301	66 / 7.287	150 / 16.020
1.1.45) ECP XXFFL03 Spar-Inbd Aft, LE Ext, LH (see 74A200929 & 74A200930 RH) - NonOrganic	- / -	- / -	2 / 0.198	20 / 2.020	- / -	20 / 2.020	20 / 2.056	20 / 2.093	10 / 1.065	12 / 1.301	66 / 7.287	150 / 16.020
1.1.46) ECP XXACF02 Adapter - Missile Launcher, Y488 - Y497 - NonOrganic	- / -	- / -	2 / 0.025	20 / 0.255	- / -	20 / 0.255	20 / 0.259	20 / 0.264	10 / 0.134	12 / 0.164	66 / 0.918	150 / 2.019
1.1.47) ECP XXW28 Pin, Hollow-Wing/Fus Attach (Lower) - NonOrganic	- / -	- / -	2 / 0.014	20 / 0.145	- / -	20 / 0.145	20 / 0.148	20 / 0.151	10 / 0.077	12 / 0.094	66 / 0.525	150 / 1.154
1.1.48) ECP XXW05 Closure-Aft, Missile Support Rib - NonOrganic	- / -	- / -	2 / 0.087	20 / 0.891	- / -	20 / 0.891	20 / 0.907	20 / 0.923	10 / 0.470	12 / 0.574	66 / 3.214	150 / 7.066
1.1.49) ECP XXAF07 Arm, Actuating-Horizontal Stabilizer - NonOrganic	- / -	- / -	2 / 0.011	20 / 0.112	- / -	20 / 0.112	20 / 0.114	20 / 0.116	10 / 0.059	12 / 0.072	66 / 0.404	150 / 0.888
1.1.50) ECP XXACF12 Support,Floor-Fuel Bay,Y470.500 to Y488.000 - NonOrganic	- / -	- / -	- / -	2 / 0.016	- / -	2 / 0.016	20 / 0.167	20 / 0.170	10 / 0.086	12 / 0.106	86 / 0.770	150 / 1.315
1.1.51) ECP XXACF10 Plate, Structural, Aircraft-Keel Attach, Y488.000 - NonOrganic	- / -	- / -	- / -	2 / 0.023	- / -	2 / 0.023	20 / 0.233	20 / 0.238	10 / 0.121	12 / 0.148	86 / 1.078	150 / 1.841
1.1.52) ECP XXFFL04 Support-Web, X7.0, Canted Y260.677 - Y286.5, Z111.65 - NonOrganic	- / -	- / -	- / -	2 / -	- / -	2 / -	20 / 0.002	20 / 0.002	10 / 0.001	12 / 0.001	86 / 0.009	150 / 0.015
1.1.53) ECP XXW13 Rib-Aft,Wing,Inner,XW91.920 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.156	20 / 1.586	10 / 0.807	12 / 0.986	106 / 8.865	150 / 12.400
1.1.54) ECP XXFFL06 Bulkhead-Fwd Fus, Acft, Y260.677 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	20 / 0.002	10 / 0.001	12 / 0.001	106 / 0.011	150 / 0.015
1.1.55) ECP XXW14 Rib,Wing,Outer-Trailing Edge,CXW181.25 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.117	20 / 1.189	10 / 0.605	12 / 0.739	106 / 6.649	150 / 9.299
1.1.56) ECP XXACF20 Plate, Structural, Aircraft-Fus Ctr Sect, Lwr, Y488.000 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.029	20 / 0.297	10 / 0.151	12 / 0.185	106 / 1.662	150 / 2.324
1.1.57) ECP XXAF03 Plate, T-Longeron, Y607.000, Y615.000 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.004	20 / 0.042	10 / 0.021	12 / 0.026	106 / 0.233	150 / 0.326

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Models of Systems Affected: F/A-18 A/B/C/D	Modification Type: SAFETY / LIFE EXTENSION	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
1.1.58) ECP XXACF23 Web-Keel, Y488-Y518 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.020	10 / 0.101	12 / 0.123	126 / 1.319	150 / 1.563
1.1.59) ECP XXACF28 Web, Support-Missile Launcher, Y488.000 to Y534.000 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.010	10 / 0.050	12 / 0.062	126 / 0.659	150 / 0.781
1.1.60) ECP XXW24 Rib-Aft, Wing, Inner, XW118.780 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.159	10 / 0.808	12 / 0.987	126 / 10.548	150 / 12.502
1.1.61) ECP XXACF27 Web-Longeron to Duct, Wing Drag, Y453-Y488 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.010	10 / 0.050	12 / 0.062	126 / 0.659	150 / 0.781
Subtotal: Recurring	- / 390.124	- / 0.231	- / 1.415	- / 13.704	- / -	- / 13.704	- / 25.737	- / 33.867	- / 41.519	- / 46.237	- / 463.670	- / 1,016.504
Non-Recurring												
1.2.1) Installation Kits N/R - Organic ⁽⁶⁾	- / 122.386	- / 22.754	- / 43.648	- / 36.814	- / -	- / 36.814	- / 19.102	- / 19.307	- / 20.230	- / 19.979	- / 94.587	- / 398.807
Subtotal: Non-Recurring	- / 122.386	- / 22.754	- / 43.648	- / 36.814	- / -	- / 36.814	- / 19.102	- / 19.307	- / 20.230	- / 19.979	- / 94.587	- / 398.807
B Kits												
Recurring												
2.1.1) Fuel Cell Refurb & RIM (RIM start FY08) - Organic ⁽⁷⁾	256 / 28.382	3 / 2.000	8 / 1.600	22 / 4.400	- / -	22 / 4.400	20 / 4.000	20 / 4.000	13 / 2.600	4 / 0.800	4 / 1.222	350 / 49.004
2.1.2) Nacelle RIM (271 & 316C1) - Organic ⁽⁸⁾	38 / 2.584	3 / 0.650	8 / 0.520	22 / 1.430	- / -	22 / 1.430	20 / 1.300	20 / 1.300	13 / 0.845	4 / 0.260	- / -	128 / 8.889
2.1.3) Prior Year Installation costs - Organic	1 / 0.839	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.839
Subtotal: Recurring	- / 31.805	- / 2.650	- / 2.120	- / 5.830	- / -	- / 5.830	- / 5.300	- / 5.300	- / 3.445	- / 1.060	- / 1.222	- / 58.732
Non-Recurring												
2.2.1) Install Equipment N/R - Organic ⁽⁹⁾	- / 12.527	- / 2.121	- / 5.920	- / -	- / -	- / -	- / 5.240	- / 3.282	- / -	- / -	- / -	- / 29.090
Subtotal: Non-Recurring	- / 12.527	- / 2.121	- / 5.920	- / -	- / -	- / -	- / 5.240	- / 3.282	- / -	- / -	- / -	- / 29.090
Subtotal: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+	832 / 556.842	16 / 27.756	52 / 53.103	332 / 56.348	- / -	332 / 56.348	573 / 55.379	734 / 61.756	601 / 65.194	644 / 67.276	5,662 / 559.479	9,446 / 1,503.133
Subtotal: Procurement, All Modification Items	- / 556.842	- / 27.756	- / 53.103	- / 56.348	- / -	- / 56.348	- / 55.379	- / 61.756	- / 65.194	- / 67.276	- / 559.479	- / 1,503.133
Support (All Modification Items)												
3.2) Data	- / 17.927	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.927
3.4) Support Equipment	- / 10.149	- / 1.998	- / 3.502	- / 10.420	- / -	- / 10.420	- / -	- / -	- / -	- / -	- / -	- / 16.069
3.5) ILS ⁽¹⁰⁾	- / 70.221	- / 5.243	- / 6.542	- / 6.659	- / -	- / 6.659	- / 6.779	- / 6.901	- / 7.026	- / 7.025	- / 24.201	- / 140.597
3.6) Other Support	- / 67.730	- / 23.945	- / 24.376	- / 24.815	- / -	- / 24.815	- / 25.260	- / 25.715	- / 25.716	- / 26.179	- / 99.606	- / 343.342
Subtotal: Support	- / 166.027	- / 31.186	- / 34.420	- / 31.894	- / -	- / 31.894	- / 32.039	- / 32.616	- / 32.742	- / 33.204	- / 123.807	- / 517.935
Installation												

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Models of Systems Affected: F/A-18 A/B/C/D			Modification Type: SAFETY / LIFE EXTENSION				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+	- / 316.884	- / 23.677	- / 14.466	- / 34.133	- / -	- / 34.133	- / 49.158	- / 61.985	- / 59.325	- / 49.845	- / 535.578	- / 1,145.051
<i>Subtotal: Installation</i>	- / 316.884	- / 23.677	- / 14.466	- / 34.133	- / -	- / 34.133	- / 49.158	- / 61.985	- / 59.325	- / 49.845	- / 535.578	- / 1,145.051
Total												
Total Cost (Procurement + Support + Installation)	1,039.753	82.619	101.989	122.375	-	122.375	136.576	156.357	157.261	150.325	1,218.864	3,166.119

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Manufacturer Information

Manufacturer Name: Boeing - SLEP ECPs	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates		Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021

Manufacturer Name: Northrop Grumman - CBR+ (ECP 904 Part 2)	Manufacturer Location: El Segundo, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 29

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015					
Delivery Dates	May 2017	May 2018					

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: North Island - ECP 1099 NLG Retract Actuator Supports	Manufacturer Location: San Diego, CA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 24

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020
Delivery Dates	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021	Nov 2022

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: CBR ECP 904

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	391 / 316.816	6 / 23.677	21 / 14.331	25 / 32.676	- / 0.000	25 / 32.676	19 / 35.048	19 / 35.679	13 / 24.851	4 / 7.784	12 / 23.773	510 / 514.635
FY 2015	- / -	- / -	- / -	8 / 0.070	- / -	8 / 0.070	- / -	- / -	- / -	- / -	- / -	8 / 0.070
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.070	- / -	- / -	- / -	- / -	8 / 0.070
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: CBR ECP 904

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	391 / 316.816	6 / 23.677	21 / 14.331	33 / 32.746	- / -	33 / 32.746	27 / 35.118	19 / 35.679	13 / 24.851	4 / 7.784	12 / 23.773	526 / 514.775

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	391	5	1	-	-	6	8	4	3	9	8	8	8	6	5	8	8	6	5	4	4	6	4	3	-	2	1	1	-	12	526
Out	375	2	3	2	2	3	1	5	2	4	4	10	11	1	4	9	5	4	4	6	5	4	8	10	5	4	4	6	4	19	526

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1099 NLG Retract Actuator Supports (AFC-579)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.068	- / -	2 / 0.135	1 / 0.069	- / 0.000	1 / 0.069	- / -	- / -	- / -	- / -	- / 0.000	4 / 0.272
FY 2015	- / -	- / -	- / -	2 / 0.076	- / -	2 / 0.076	- / -	- / -	- / -	- / -	- / -	2 / 0.076
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.141	- / -	- / -	- / -	- / -	2 / 0.141
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.145	- / -	- / -	- / -	2 / 0.145
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.147	- / -	- / -	2 / 0.147
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.151	- / -	2 / 0.151
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.150	2 / 0.150
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.150	2 / 0.150
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.068	- / -	2 / 0.135	3 / 0.145	- / -	3 / 0.145	2 / 0.141	2 / 0.145	2 / 0.147	2 / 0.151	4 / 0.300	18 / 1.232

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 1099 NLG Retract Actuator Supports (AFC-579)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	1	1	-	-	2	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	4	18
Out	1	-	-	-	-	1	1	-	-	2	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	4	18

Method of Implementation: Navy Drive-In Modification:: Installation Name: SLEP ECPs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	26 / 1.242	- / -	26 / 1.242	- / -	- / -	- / -	- / -	- / -	26 / 1.242
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	286 / 13.899	- / -	- / -	- / -	- / -	286 / 13.899
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	531 / 26.161	- / -	- / -	- / -	531 / 26.161
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	691 / 34.327	1 / 0.004	- / -	692 / 34.331
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	572 / 41.906	1 / 0.004	573 / 41.910
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	634 / 47.038	634 / 47.038
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5,658 / 464.463	5,658 / 464.463
Total	- / -	- / -	- / -	26 / 1.242	- / -	26 / 1.242	286 / 13.899	531 / 26.161	691 / 34.327	573 / 41.910	6,293 / 511.505	8,400 / 629.044

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	23	3	-	-	146	130	10	-	272	259	-	-	340	351	-	-	287	286	-	-	6,293	8,400
Out	-	-	-	-	-	-	-	-	-	23	3	-	-	146	130	10	-	272	259	-	-	340	351	-	-	287	286	-	-	6,293	8,400

Method of Implementation (Organic): CBR ECP 904 Part 1 Loose parts

Installation Quantity: 23

Method of Implementation (Organic): Fuel Cell Refurb & RIM (RIM start FY08)

Installation Quantity: 350

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Modification Item 1 of 1: F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

Installation Information

Method of Implementation (Organic): Nacelle RIM (271 & 316C1)	Installation Quantity: 128
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Method of Implementation (Organic): Prior Year Installation costs - Not Installed	Installation Quantity: 1
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Footnotes:

- (3) Prior year procurements were planned based on ability to install 40 kits per year. Actual capacity to install is only up to 26 kits per year.
- (4) A) Kit installs are delayed due to procurement of Canadian and Australian kits. In addition, prior year procurements were planned based on ability to install 40 kits per year. Actual capacity to install is only up to 26 kits per year. C) Due to production line shut down, 23 kits were procured in FY13 as a life of type buy.
- (5) A) Kit pricing is quantity sensitive. Foreign military sales procurements in some years affect unit price. B) Kit installs are delayed due to procurement of Canadian and Australian kits. In addition, prior year procurements were planned based on ability to install 40 kits per year. Actual capacity to install is only up to 26 kits per year.
- (6) SLEP Non-Recurring Engineering (NRE) funding increases in FY16 due to ramp up of SLEP efforts.
- (7) Funding for RIM is budgeted based on known repair requirements that will occur each time an F/A-18 is opened to install the CBR+ structural components. These issues are inherent and expected during a modification of this scope where areas of the aircraft are being disassembled that were never intended to be disassembled when originally manufactured.
- (8) Funding for RIM is budgeted based on known repair requirements that will occur each time an F/A-18 is opened to install the CBR+ structural components. These issues are inherent and expected during a modification of this scope where areas of the aircraft are being disassembled that were never intended to be disassembled when originally manufactured.
- (9) Install Equipment N/R represents production line shutdown costs of three separate events during the FYDP. Costs in FY14 - FY16 represent CBR line shutdown at the vendor. Costs in FY18-19 represent CBR production line shutdown at two depots.
- (10) ILS funding increases in FY16 due to ramp up of SLEP efforts.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)					

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	414.763	17.786	62.385	64.513	-	64.513	82.938	59.890	60.899	61.779	199.145	1,024.098
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	414.763	17.786	62.385	64.513	-	64.513	82.938	59.890	60.899	61.779	199.145	1,024.098
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	414.763	17.786	62.385	64.513	-	64.513	82.938	59.890	60.899	61.779	199.145	1,024.098
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) funds a tactical data link communications system to provide a secure digital communications and navigation to aircraft. Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) is an Engineering Change Proposal (ECP) upgrade to the MIDS-LVT (Low Volume Terminal) and offers the same functionality as MIDS-LVT (Link 16, tactical air navigation, and digital voice) in a software-controlled architecture JTRS-compliant format, and provides the option of future expandability to host follow-on advanced tactical data links (i.e. Tactical Targeting Network Technology (TTNT). MIDS JTRS is approved for retrofit in Lots 26-31 F/A-18E/F and EA-18G aircraft and is funded for retrofit incorporation as MIDS JTRS 4-Net Concurrent Multi-Netting and Concurrent Contention Receive (CMN-4) in all MIDS-capable Navy F/A-18 and EA-18G aircraft. MIDS JTRS provides cryptographic modernization and frequency remapping capability. CMN-4 provides increased Link 16 capacity to support Navy Integrated Fire Control-Counter Air. With either MIDS-LVT or MIDS JTRS installed, F/A-18 is interoperable with all Link 16 equipped platforms in United States and Allied Nations. This OSIP will also be used to perform efforts to address parts obsolescence. Single MIDS Operational Requirements Document # 642-61-04 and MIDS JTRS Capability Production Document Version 2.0 are germane.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

This OSIP was originally planned for incorporation of MIDS into F/A-18C/D (Lots 12-21) and F/A-18E/F (Lots 22-31), but is now applicable to all F/A-18A++/C/D/E/F and EA-18G aircraft. MIDS JTRS completed its VCD in March 2012. Full rate production approval for MIDS-LVT was granted on 25 September 2003 and for MIDS JTRS on 4 April 2012.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)			
Models of Systems Affected: F/A-18 and EA-18G			Modification Type: CAPABILITY IMPROVEMENT					Related RDT&E PEs:					
Financial Plan													
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)</i>													
A Kits													
Recurring													
1.1.1) A-Kits Archive - Organic	421 / 57.676	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	421 / 57.676	
1.1.2) MIDS JTRS cable sets - Organic	- / -	- / -	118 / 0.590	155 / 0.775	- / -	155 / 0.775	176 / 0.880	116 / 0.580	117 / 0.585	74 / 0.370	- / -	756 / 3.780	
Subtotal: Recurring	- / 57.676	- / -	- / 0.590	- / 0.775	- / -	- / 0.775	- / 0.880	- / 0.580	- / 0.585	- / 0.370	- / -	- / 61.456	
B Kits													
Recurring													
2.1.1) MIDS JTRS Terminals (CMN-4) - Organic	- / -	- / -	118 / 43.021	144 / 51.408	- / -	144 / 51.408	174 / 60.900	114 / 39.900	116 / 41.180	74 / 27.701	16 / 6.000	756 / 270.110	
2.1.2) MIDS JTRS Upgrades (CMN-4) - Organic	12 / 2.269	- / -	- / -	- / -	- / -	- / -	62 / 10.039	61 / 10.094	61 / 10.295	61 / 10.501	- / -	257 / 43.198	
2.1.3) 27C SCS - Organic	- / 2.741	- / 4.438	- / 3.267	- / 10.105	- / -	- / 10.105	- / -	- / -	- / -	- / -	- / -	- / 10.551	
2.1.4) H10 SCS - Organic	- / 10.145	- / 10.041	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.186	
2.1.5) H12 SCS - Organic	- / 2.776	- / 2.031	- / 3.126	- / 11.001	- / -	- / 11.001	- / -	- / -	- / -	- / -	- / -	- / 18.934	
2.1.6) E/F MIDS JTRS TTNT Terminals - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	414 / 130.800	414 / 130.800	
2.1.7) EA-18G MIDS JTRS TTNT Terminals - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 17.173	120 / 57.100	150 / 74.273	
2.1.8) B-Kits Archive - Organic	1,023 / 212.602	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,023 / 212.602	
2.1.9) Prior Year Installation Costs - Organic	463 / 39.887	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	463 / 39.887	
Subtotal: Recurring	- / 260.420	- / 6.510	- / 49.414	- / 52.514	- / -	- / 52.514	- / 70.939	- / 49.994	- / 51.475	- / 55.375	- / 193.900	- / 790.541	
Non-Recurring													
2.2.1) Install Equipment N/R - Organic	- / 37.301	- / 6.456	- / 1.007	- / 1.232	- / -	- / 1.232	- / 1.257	- / 0.777	- / 0.920	- / 0.805	- / -	- / 49.755	
Subtotal: Non-Recurring	- / 37.301	- / 6.456	- / 1.007	- / 1.232	- / -	- / 1.232	- / 1.257	- / 0.777	- / 0.920	- / 0.805	- / -	- / 49.755	
Subtotal: Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)	1,919 / 355.397	- / 12.966	236 / 51.011	299 / 54.521	- / -	299 / 54.521	412 / 73.076	291 / 51.351	294 / 52.980	239 / 56.550	550 / 193.900	4,240 / 901.752	
Subtotal: Procurement, All Modification Items	- / 355.397	- / 12.966	- / 51.011	- / 54.521	- / -	- / 54.521	- / 73.076	- / 51.351	- / 52.980	- / 56.550	- / 193.900	- / 901.752	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 1.453	- / 0.071	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.524	
3.2) Data	- / 2.012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.012	
3.4) Support Equipment	- / 7.391	- / 0.163	- / 0.335	- / 0.562	- / -	- / 0.562	- / 0.676	- / 0.687	- / 0.706	- / 0.402	- / 0.380	- / 11.302	
3.5) ILS	- / 10.664	- / 1.688	- / 1.850	- / 1.883	- / -	- / 1.883	- / 1.917	- / 1.952	- / 1.987	- / 2.023	- / 3.170	- / 27.134	
3.6) Other Support ⁽¹¹⁾	- / 37.846	- / 2.898	- / 1.189	- / 1.547	- / -	- / 1.547	- / 2.269	- / 5.900	- / 5.226	- / 2.804	- / 1.695	- / 80.374	
Subtotal: Support	- / 59.366	- / 4.820	- / 11.374	- / 9.992	- / -	- / 9.992	- / 9.862	- / 8.539	- / 7.919	- / 5.229	- / 5.245	- / 122.346	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)			
Models of Systems Affected: F/A-18 and EA-18G				Modification Type: CAPABILITY IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Installation													
<i>Subtotal: Installation</i>	-	-	-	-	-	-	-	-	-	-	-	-	
Total													
Total Cost (Procurement + Support + Installation)	414.763	17.786	62.385	64.513	-	64.513	82.938	59.890	60.899	61.779	199.145	1,024.098	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)

Modification Item 1 of 1: Multi-Functional Information Distribution System (MIDS) (OSIP 12-99)

Installation Information

Method of Implementation (Organic): A-Kits Archive - Not Installed	Installation Quantity: 421
Method of Implementation (Organic): MIDS JTRS cable sets - Not Installed	Installation Quantity: 756
Method of Implementation (Organic): MIDS JTRS Terminals (CMN-4)	Installation Quantity: 756
Method of Implementation (Organic): MIDS JTRS Upgrades (CMN-4)	Installation Quantity: 257
Method of Implementation (Organic): E/F MIDS JTRS TTNT Terminals	Installation Quantity: 414
Method of Implementation (Organic): EA-18G MIDS JTRS TTNT Terminals	Installation Quantity: 150
Method of Implementation (Organic): B-Kits Archive - Not Installed	Installation Quantity: 1023
Method of Implementation (Organic): Prior Year Installation Costs - Not Installed	Installation Quantity: 463

Footnotes:

⁽¹¹⁾ Other Support funding increases from FY15 to FY16 due to realignment of testing efforts from Install Equipment N/R (CE 2.2.1) to Other Support (CE 3.6).

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	349.932	15.112	7.257	15.111	-	15.111	11.865	-	-	-	-	399.277
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	349.932	15.112	7.257	15.111	-	15.111	11.865	-	-	-	-	399.277
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	349.932	15.112	7.257	15.111	-	15.111	11.865	-	-	-	-	399.277

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program (OSIP) upgrades United States Marine Corps (USMC) F/A-18A/B/C/Ds avionics including both hardware and software capabilities. This requirement is critical to meet the Marine Corps requirements for the Tactical Aircraft Integration Plan. The avionics upgrade includes avionics subsystems already incorporated or being incorporated into USMC and/or Foreign Military Sales F/A-18 aircraft. ECP 1153 incorporates the Navy Aircrew Common Ejection Seat (NACES) for utilization with the Joint Helmet Mounted Cueing System (JHMCS) system on C+ aircraft. ECP 1153 adds the following capabilities to C+ aircraft: MIDS LVT; color displays; JHMCS; ALE-47; Tactical Aircraft Moving Map Capability (TAMMAC); and Advanced Memory Unit (AMU). ECP 1153 for B+ will incorporate the NACES, MIDS LVT; color displays; JHMCS; ALE-47; TAMMAC; and AMU on the B+ aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The number of aircraft to be retrofitted in the program of record has changed; the USMC has deferred retrofitting some early lot F/A-18C/Ds vice only F/A-18A/Bs due to greater remaining life on those aircraft.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)			
Models of Systems Affected: F/A-18 A/B/C/D				Modification Type: AVIONICS UPGRADE				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)</i>													
A Kits													
Recurring													
1.1.1) ECP-1153 A-kits - NonOrganic	1 / 1.398	15 / 5.747	13 / 5.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 12.215	
1.1.2) ECP 1153 A Kit RIM - Organic	- / -	- / -	- / -	15 / 3.103	- / -	15 / 3.103	13 / 1.211	- / -	- / -	- / -	- / -	28 / 4.314	
1.1.3) A-Kits Archive - Organic	216 / 19.105	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / 19.105	
Subtotal: Recurring	- / 20.503	- / 5.747	- / 5.070	- / 3.103	- / -	- / 3.103	- / 1.211	- / -	- / -	- / -	- / -	- / 35.634	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 17.796	- / 0.894	- / 0.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.306	
Subtotal: Non-Recurring	- / 17.796	- / 0.894	- / 0.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.306	
B Kits													
Recurring													
2.1.1) ECP-1153 JHMCS Lower Helmet VI - Organic	12 / 0.099	14 / 0.024	14 / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.145	
2.1.2) ECP-1153 USMC Displays- MDGU - Organic	2 / 1.891	8 / 5.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 6.987	
2.1.3) B-Kits Archive - Organic	1,361 / 245.705	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,361 / 245.705	
2.1.4) Prior Year Installation Cost - Organic	236 / 44.157	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	236 / 44.157	
Subtotal: Recurring	- / 291.852	- / 5.120	- / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 296.994	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 0.944	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.944	
Subtotal: Non-Recurring	- / 0.944	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.944	
Subtotal: USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)	1,828 / 331.095	37 / 11.761	27 / 5.708	15 / 3.103	- / -	15 / 3.103	13 / 1.211	- / -	- / -	- / -	- / -	1,920 / 352.878	
Subtotal: Procurement, All Modification Items	- / 331.095	- / 11.761	- / 5.708	- / 3.103	- / -	- / 3.103	- / 1.211	- / -	- / -	- / -	- / -	- / 352.878	
Support (All Modification Items)													
3.2) Data	- / 1.812	- / 1.256	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.068	
3.3) Training Equipment	- / 0.747	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.747	
3.4) Support Equipment	- / 5.162	- / 0.251	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.413	
3.5) ILS	- / 3.099	- / 0.303	- / 0.234	- / 0.235	- / -	- / 0.235	- / 0.185	- / -	- / -	- / -	- / -	- / 4.056	
3.6) Other Support	- / 6.619	- / 1.541	- / 1.315	- / 1.652	- / -	- / 1.652	- / 1.697	- / -	- / -	- / -	- / -	- / 12.824	
Subtotal: Support	- / 17.439	- / 3.351	- / 1.549	- / 1.887	- / -	- / 1.887	- / 1.882	- / -	- / -	- / -	- / -	- / 26.108	
Installation													

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

Models of Systems Affected: F/A-18 A/B/C/D	Modification Type: AVIONICS UPGRADE	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Modification Item 1 of 1: USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)	- / 1.398	- / -	- / -	- / 10.121	- / -	- / 10.121	- / 8.772	- / -	- / -	- / -	- / -	- / 20.291
<i>Subtotal: Installation</i>	- / 1.398	- / -	- / -	- / 10.121	- / -	- / 10.121	- / 8.772	- / -	- / -	- / -	- / -	- / 20.291
Total												
Total Cost (Procurement + Support + Installation)	349.932	15.112	7.257	15.111	-	15.111	11.865	-	-	-	-	399.277

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

Modification Item 1 of 1: USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

Manufacturer Information

Manufacturer Name: Various - ECP-1153 A-kits				Manufacturer Location: Various			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 20			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Feb 2015	Feb 2016					
Delivery Dates	Oct 2016	Oct 2017					

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-1153 A-kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 1.398	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / 1.398
FY 2015	- / -	- / -	- / -	15 / 10.121	- / -	15 / 10.121	- / -	- / -	- / -	- / -	- / -	15 / 10.121
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	13 / 8.772	- / -	- / -	- / -	- / -	13 / 8.772
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 1.398	- / -	- / -	15 / 10.121	- / -	15 / 10.121	13 / 8.772	- / -	- / -	- / -	- / -	29 / 20.291

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	1	-	-	-	-	-	-	-	-	4	4	4	3	3	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	1	-	-	-	-	-	-	-	-	4	4	4	3	3	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation (Organic): ECP 1153 A Kit RIM - Not Installed **Installation Quantity:** 28

Method of Implementation (Organic): A-Kits Archive - Not Installed **Installation Quantity:** 216

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 5 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)
<i>Modification Item 1 of 1:</i> USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)		
Installation Information		
Method of Implementation (Organic): ECP-1153 JHMCS Lower Helmet VI - Not Installed		Installation Quantity: 40
Method of Implementation (Organic): ECP-1153 USMC Displays- MDGU - Not Installed		Installation Quantity: 10
Method of Implementation (Organic): B-Kits Archive - Not Installed		Installation Quantity: 1361
Method of Implementation (Organic): Prior Year Installation Cost - Not Installed		Installation Quantity: 236

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	291.726	5.730	7.951	4.129	-	4.129	2.253	-	-	-	-	311.789
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	291.726	5.730	7.951	4.129	-	4.129	2.253	-	-	-	-	311.789
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	291.726	5.730	7.951	4.129	-	4.129	2.253	-	-	-	-	311.789
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Joint Helmet-Mounted Cueing System (JHMCS) is a multi-service system that provides United States Air Force (USAF), United States Navy (USN), and United States Marine Corps aircraft the capability to cue and verify on-board weapons and weapons sensors to a specific azimuth/elevation determined by the pilot's head position and to confirm sensor line-of-sight. The intent is to reduce tasks required of aircrews, verify seeker/sensor position, and enhance weapons employment opportunities. The JHMCS incorporates an ejection-compatible helmet-mounted display system, with capability to cue and verify cueing of high off-axis sensors and weapons, on USAF and USN single seat and two seat fighter aircraft. JHMCS night vision cueing and display will provide the ability to cue and display weapons and sensors at night through the initial fielding of a narrow field of view night vision device that integrates the JHMCS cueing and display symbology. SJU-17B Navy Aircrew Common Ejection Seat (NACES), cockpit video recording system and tactical aircraft moving map capability digital map computer are required for retrofit installation of JHMCS. This OSIP also provides for the upgrade modification of SJU-17A NACES, and the replacement of SJU-5 ejection seats with retrofit SJU-17B NACES for Lot 12 F/A-18C aircraft. Installation of Aft Seat JHMCS capability for Lot 23-24 F/A-18F will be performed concurrent with the upgrade retrofit installation of the type 2 advanced mission computer and the solid state recorder in OSIP 23-04.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

All developmental milestones have been completed. ECP-570R4 is completing its final aircraft integration milestones. AFC-400 Rev A for Lot 12 F/A-18C completed validation/verification and retrofit installation began in 2015. AFC-445 for Lot 23 F/A-18F is scheduled to complete validation installation in 1Q 2016. Retrofit installations for Lot 23-25 F/A-18F will begin in 2016 and continue through 2018 concurrent with ECP-6212R1 (OSIP 23-04).

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)			
Models of Systems Affected: F/A-18 and EA-18G				Modification Type: CAPABILITY IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)</i>													
A Kits													
Recurring													
1.1.1) C/D A-Kit - NonOrganic ⁽¹²⁾	362 / 33.633	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	362 / 33.633	
1.1.2) E/F A-Kit - NonOrganic ⁽¹³⁾	178 / 16.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	178 / 16.383	
1.1.3) A-Kits Archive - Organic	1,141 / 4.827	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,141 / 4.827	
Subtotal: Recurring	- / 54.843	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 54.843	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 18.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.832	
Subtotal: Non-Recurring	- / 18.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.832	
B Kits													
Recurring													
2.1.1) C/D B-Kit - Organic	2,637 / 80.436	25 / 0.515	25 / 0.524	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,687 / 81.475	
2.1.2) 25X SCS - Organic	- / 3.485	- / -	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.785	
2.1.3) 27C SCS - Organic	- / 0.119	- / 0.037	- / 0.171	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.327	
2.1.4) B-Kits Archive - Organic	804 / 23.894	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	804 / 23.894	
Subtotal: Recurring	- / 107.934	- / 0.552	- / 0.995	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 109.481	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 1.281	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.281	
Subtotal: Non-Recurring	- / 1.281	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.281	
Subtotal: Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)	5,122 / 182.890	25 / 0.552	25 / 0.995	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5,172 / 184.437	
Subtotal: Procurement, All Modification Items	- / 182.890	- / 0.552	- / 0.995	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 184.437	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 0.794	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.794	
3.2) Data	- / 6.503	- / -	- / 0.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.583	
3.4) Support Equipment	174 / 19.512	- / -	- / 0.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	174 / 19.762	
3.5) ILS ⁽¹⁴⁾	- / 22.872	- / -	- / 0.147	- / 0.170	- / -	- / 0.170	- / 0.173	- / -	- / -	- / -	- / -	- / 23.362	
3.6) Other Support ⁽¹⁵⁾	- / 13.629	- / 2.800	- / 0.325	- / 0.132	- / -	- / 0.132	- / 0.134	- / -	- / -	- / -	- / -	- / 17.020	
Subtotal: Support	- / 63.310	- / 2.800	- / 0.802	- / 0.302	- / -	- / 0.302	- / 0.307	- / -	- / -	- / -	- / -	- / 67.521	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)

Models of Systems Affected: F/A-18 and EA-18G			Modification Type: CAPABILITY IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Installation												
<i>Modification Item 1 of 1:</i> Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)	- / 45.526	- / 2.378	- / 6.154	- / 3.827	- / -	- / 3.827	- / 1.946	- / -	- / -	- / -	- / -	- / 59.831
<i>Subtotal: Installation</i>	- / 45.526	- / 2.378	- / 6.154	- / 3.827	- / -	- / 3.827	- / 1.946	- / -	- / -	- / -	- / -	- / 59.831
Total												
Total Cost (Procurement + Support + Installation)	291.726	5.730	7.951	4.129	-	4.129	2.253	-	-	-	-	311.789

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)

Modification Item 1 of 1: Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)

Manufacturer Information

Manufacturer Name: Boeing - E/F A-kits	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 14	Production Leadtime (in Months): 14

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: Boeing - C/D A-kits	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 15	Production Leadtime (in Months): 16

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: C/D A-Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	287 / 32.596	19 / 1.593	34 / 3.420	22 / 2.280	- / 0.000	22 / 2.280	- / -	- / -	- / -	- / -	- / 0.000	362 / 39.889
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	287 / 32.596	19 / 1.593	34 / 3.420	22 / 2.280	- / -	22 / 2.280	- / -	- / -	- / -	- / -	- / -	362 / 39.889

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	287	10	9	-	-	17	17	-	-	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	362
Out	287	10	9	-	-	17	17	-	-	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	362	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)

Modification Item 1 of 1: Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: E/F A-Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	112 / 12.930	11 / 0.785	20 / 2.734	14 / 1.547	- / 0.000	14 / 1.547	21 / 1.946	- / -	- / -	- / -	- / 0.000	178 / 19.942
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	112 / 12.930	11 / 0.785	20 / 2.734	14 / 1.547	- / -	14 / 1.547	21 / 1.946	- / -	- / -	- / -	- / -	178 / 19.942

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	112	3	3	3	2	5	5	5	5	4	4	3	3	5	5	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	178
Out	112	3	3	3	2	5	5	5	5	4	4	3	3	5	5	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	178

Method of Implementation (Organic): A-Kits Archive - Not Installed **Installation Quantity:** 1141

Method of Implementation (Organic): C/D B-Kit **Installation Quantity:** 2687

Method of Implementation (Organic): B-Kits Archive - Not Installed **Installation Quantity:** 804

Footnotes:

(12) Install costs vary due to significant differences in work required by type/model/series and location performed. Labor rates vary depending upon whether work is performed Continental United States (CONUS) or Outside Continental United States (OCONUS), and by commercial or organic depots.

(13) Install costs vary due to significant differences in work required by Type Model Series and location performed. Labor rates vary depending upon whether work is performed CONUS or OCONUS, and by Commercial or Organic depots.

(14) Due to installs being performed in FY16, FY17, and FY18 ILS funding is also required in those years.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 6 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)

⁽¹⁵⁾ Due to installs being performed in FY16, FY17, and FY18 Other Support funding is also required in those years.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	880.106	8.203	16.737	0.802	-	0.802	2.962	1.855	-	-	3.889	914.554
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	880.106	8.203	16.737	0.802	-	0.802	2.962	1.855	-	-	3.889	914.554
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	880.106	8.203	16.737	0.802	-	0.802	2.962	1.855	-	-	3.889	914.554
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Advanced Targeting Forward Looking Infrared (ATFLIR) (Operational Requirements Document# 700-88-06) will provide the F/A-18A+/C/D/E/F with an enhanced capability to detect, track and attack air and ground targets. Laser guided and global positioning system standoff weapon systems with greater standoff ranges require improved performance over second generation targeting pods. The ATFLIR currently utilizes the third generation of forward looking infrared technology and provides a quantum leap in operational effectiveness to fully support the standoff precision strike mission. This Operational, Safety and Improvement Program (OSIP) is used to perform efforts to address parts obsolescence and to examine and incorporate potential ATFLIR-related capability upgrades associated with network centric operations, interoperability requirements, and upgraded targeting capability requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

ATFLIR development began in FY1997. Full rate production approval was given in October 2003. Full Operational Capability was met in July 2010. Motion Compensation and Electro-Optical Daylight Operations Improvement upgrades commenced June 2009 with completion planned for December 2019.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

Models of Systems Affected: F/A-18A+/C/D/E/F	Modification Type: CAPABILITY IMPROVEMENTS	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

A Kits

Recurring

1.1.1) ARDL (A6) Kits (ECP 6342) - NonOrganic	253 / 1.487	11 / 0.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.105	285 / 1.632
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1.1.2) ARDL (A3, A4, A8, A9) Kits (ECP 6342) - NonOrganic ⁽¹⁶⁾	1,423 / 10.672	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,423 / 10.672
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Subtotal: Recurring	- / 12.159	- / 0.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.105	- / 12.304
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Non-Recurring

1.2.1) Installation Kits N/R - Organic	- / 6.144	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.144
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Subtotal: Non-Recurring	- / 6.144	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.144
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B Kits

Recurring

2.1.1) IR Marker - OCO - Organic	331 / 63.807	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	331 / 63.807
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2.1.2) ATFLIR EOSU ECP10 - RTOC - NonOrganic	215 / 10.577	70 / 4.223	90 / 5.216	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	375 / 20.016
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2.1.3) ECP-0035 Daylight Ops - OCO - Organic	110 / 13.724	- / -	60 / 7.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 3.700	205 / 24.554
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2.1.4) 29C SCS - Organic	- / -	- / -	- / 1.085	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.085
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2.1.5) H14 SCS - Organic	- / -	- / -	- / 1.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.101
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2.1.6) H16 SCS - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.412	- / 0.327	- / -	- / -	- / -	- / 1.739
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2.1.7) B-Kits Archive - Organic	998 / 424.939	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	998 / 424.939
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2.1.8) Prior Year Installs - Organic	493 / 3.012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	493 / 3.012
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Subtotal: Recurring	- / 516.059	- / 4.223	- / 14.532	- / -	- / -	- / -	- / 1.412	- / 0.327	- / -	- / -	- / 3.700	- / 540.253
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Non-Recurring

2.2.1) Installation Equipment N/R - Organic	- / 80.404	- / 1.243	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 81.647
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Subtotal: Non-Recurring	- / 80.404	- / 1.243	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 81.647
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Subtotal: Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)	3,823 / 614.766	81 / 5.506	150 / 14.532	- / -	- / -	- / -	- / 1.412	- / 0.327	- / -	- / -	56 / 3.805	4,110 / 640.348
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Subtotal: Procurement, All Modification Items	- / 614.766	- / 5.506	- / 14.532	- / -	- / -	- / -	- / 1.412	- / 0.327	- / -	- / -	- / 3.805	- / 640.348
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Support (All Modification Items)

3.1) Engineering Change Orders	- / 94.710	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 94.710
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3.2) Data	- / 8.462	- / 0.568	- / 0.287	- / -	- / -	- / -	- / 0.141	- / 0.198	- / -	- / -	- / -	- / 9.656
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3.3) Training Equipment	- / 4.315	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.315
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

Models of Systems Affected: F/A-18A+/C/D/E/F **Modification Type:** CAPABILITY IMPROVEMENTS **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.4) Support Equipment	- / 171.189	- / -	- / 10.141	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 171.330
3.5) ILS	- / 172.632	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 172.632
3.6) Other Support ⁽¹⁷⁾	- / 9.113	- / 1.378	- / 10.304	- / 10.427	- / -	- / 10.427	- / 10.435	- / 0.443	- / -	- / -	- / -	- / 12.100
<i>Subtotal: Support</i>	- / 260.421	- / 1.946	- / 10.732	- / 10.427	- / -	- / 10.427	- / 10.576	- / 0.641	- / -	- / -	- / -	- / 264.743
Installation												
<i>Modification Item 1 of 1:</i> Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)	- / 4.919	- / 0.751	- / 1.473	- / 10.375	- / -	- / 10.375	- / 10.974	- / 0.887	- / -	- / -	- / 10.084	- / 19.463
<i>Subtotal: Installation</i>	- / 4.919	- / 0.751	- / 1.473	- / 10.375	- / -	- / 10.375	- / 10.974	- / 0.887	- / -	- / -	- / 10.084	- / 19.463
Total												
Total Cost (Procurement + Support + Installation)	880.106	8.203	16.737	0.802	-	0.802	2.962	1.855	-	-	3.889	914.554

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

Modification Item 1 of 1: Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

Manufacturer Information

Manufacturer Name: CKA & FRC SW North Island				Manufacturer Location: Orange Park, Florida & San Diego, CA			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 9			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2016						
Delivery Dates	Oct 2016						
Manufacturer Name: Raytheon - ATFLIR EOSU ECP 10				Manufacturer Location: McKinney, TX			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 5			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015					
Delivery Dates	May 2015	May 2016					
Manufacturer Name: Boeing - ARDL (A3, A4, A8, A9)				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ARDL (A6) Kits (ECP 6342)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	155 / 0.465	58 / 0.174	31 / 0.090	9 / 0.027	- / 0.000	9 / 0.027	- / -	- / -	- / -	- / -	- / 0.000	253 / 0.756
FY 2015	- / -	- / -	- / -	11 / 0.033	- / -	11 / 0.033	- / -	- / -	- / -	- / -	- / -	11 / 0.033
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.084	21 / 0.084
Total	155 / 0.465	58 / 0.174	31 / 0.090	20 / 0.060	- / -	20 / 0.060	- / -	- / -	- / -	- / -	21 / 0.084	285 / 0.873

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

Modification Item 1 of 1: Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ARDL (A6) Kits (ECP 6342)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	155	14	15	14	15	7	8	8	8	7	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	285
Out	155	14	15	14	15	7	8	8	8	7	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	285	

Method of Implementation: Navy Field Modification Team:: Installation Name: ARDL (A3, A4, A8, A9) Kits (ECP 6342)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	897 / 3.140	38 / 0.235	150 / 0.944	50 / 0.315	- / 0.000	50 / 0.315	152 / 0.974	136 / 0.887	- / -	- / -	- / 0.000	1,423 / 6.495
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	897 / 3.140	38 / 0.235	150 / 0.944	50 / 0.315	- / -	50 / 0.315	152 / 0.974	136 / 0.887	- / -	- / -	- / -	1,423 / 6.495

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	897	19	19	-	-	37	37	38	38	12	12	13	13	38	38	38	38	34	34	34	34	-	-	-	-	-	-	-	-	-	-	-	-	-	1,423
Out	897	19	19	-	-	37	37	38	38	12	12	13	13	38	38	38	38	34	34	34	34	-	-	-	-	-	-	-	-	-	-	-	-	-	1,423

Method of Implementation: Navy During SDLM:: Installation Name: ATFLIR EOSU ECP10 - RTOC

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	215 / 1.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	215 / 1.314

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

Modification Item 1 of 1: Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

Installation Information

Method of Implementation: Navy During SDLM:: Installation Name: ATFLIR EOSU ECP10 - RTOC

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	70 / 0.342	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 0.342
FY 2016	- / -	- / -	90 / 0.439	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	90 / 0.439
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	215 / 1.314	70 / 0.342	90 / 0.439	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	375 / 2.095

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	215	-	-	35	35	-	-	45	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	375
Out	215	-	-	35	35	-	-	45	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	375

Method of Implementation (Organic): IR Marker - OCO **Installation Quantity:** 331

Method of Implementation (Organic): ECP-0035 Daylight Ops - OCO **Installation Quantity:** 205

Method of Implementation (Organic): B-Kits Archive - Not Installed **Installation Quantity:** 998

Method of Implementation (Organic): Prior Year Installs - Not Installed **Installation Quantity:** 493

Footnotes:

- (16) The installation of ARDL (A3, A4, A8, A9) kits has been delayed due to aircraft availability based on the requirements needed to train and prepare for deployment.
- (17) Other support funding is required in FY17 to FY19 to support ongoing installations of kits in those FYs.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 8 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02)					

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	166.249	30.441	29.504	27.004	-	27.004	22.270	35.089	39.770	40.344	224.422	615.093
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	166.249	30.441	29.504	27.004	-	27.004	22.270	35.089	39.770	40.344	224.422	615.093
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	166.249	30.441	29.504	27.004	-	27.004	22.270	35.089	39.770	40.344	224.422	615.093
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

F/A-18C-F and EA-18G training funds will be used to meet current fleet readiness squadron and fleet training and readiness requirements. These requirements mandate that the training systems be concurrent with the aircraft hardware, software, and capabilities. New components and software will be procured to prevent obsolescence of the various trainers throughout the service life of the platform. Funding will also be used to update courseware, computer based training, and maintenance trainers as Engineering Change Proposals (ECPs) are performed on the aircraft. Funds will be used to increase the simulation fidelity of any aircraft driven changes, implement these changes across a distributed architecture, and synthesize these changes into the simulated threat environment. Current trainer inventory is 56 maintenance trainers with 32 devices for F/A-18 EF and EA-18 G and 24 devices for F/A-18 C-D and 65 aircrew training devices and 93 aircrew cockpits with 39 devices and 62 cockpits for F/A-18 EF and EA-18 G and 26 devices and 31 cockpits for F/A-18 C-D.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Trainers were procured with APN-1 funding and are modified with ECPs as required.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 8 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02)

Models of Systems Affected: F/A-18C/D/E/F and EA-18G	Modification Type: TRAINERS UPGRADE	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: N/A</i>												
<i>Subtotal: N/A</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
3.3) Training Equipment ⁽¹⁸⁾	- / 164.949	- / 29.700	- / 28.236	- / 25.713	- / -	- / 25.713	- / 20.956	- / 33.751	- / 37.521	- / 39.102	- / 219.595	- / 599.523
3.5) ILS	- / 0.668	- / 0.394	- / 0.401	- / 0.408	- / -	- / 0.408	- / 0.416	- / 0.423	- / 0.431	- / 0.347	- / 4.008	- / 7.496
3.6) Other Support ⁽¹⁹⁾	- / 0.632	- / 0.347	- / 0.867	- / 0.883	- / -	- / 0.883	- / 0.898	- / 0.915	- / 1.818	- / 0.895	- / 0.819	- / 8.074
<i>Subtotal: Support</i>	- / 166.249	- / 30.441	- / 29.504	- / 27.004	- / -	- / 27.004	- / 22.270	- / 35.089	- / 39.770	- / 40.344	- / 224.422	- / 615.093
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	166.249	30.441	29.504	27.004	-	27.004	22.270	35.089	39.770	40.344	224.422	615.093

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 8 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02)

Modification Item 1 of 1: N/A

Manufacturer Information

Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Support Only Installation	Installation Quantity: 0
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Footnotes:

⁽¹⁸⁾ Funding is higher in FY16 than in FY17 due to the roll-in of regular upgrades to F/A-18E/F and EA-18G courseware and training devices, to include aircrew (tactical operational flight trainers and low cost trainers) and maintenance (integrated visual environments and maintenance trainer sets) in FY16. Aircrew devices are upgraded on a yearly cycle and the maintenance devices on a two to three year cycle.

⁽¹⁹⁾ Other Support increases in FY16 due to increased trainers modifications.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	673.239	81.766	161.992	143.920	-	143.920	154.022	159.695	212.716	207.641	144.785	1,939.776
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	673.239	81.766	161.992	143.920	-	143.920	154.022	159.695	212.716	207.641	144.785	1,939.776
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	673.239	81.766	161.992	143.920	-	143.920	154.022	159.695	212.716	207.641	144.785	1,939.776
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Corrections to discrepancies discovered during testing and development can sometimes be incorporated into production aircraft, effective with the physical configuration audit which establishes the product baseline of the aircraft. However, when this cannot be done due to time constraints, retrofit of the changes into already delivered aircraft requires funding through the Aircraft Modification Program. Corrections to the following items/conditions are required to meet Commander, Naval Air Force directed transitions as promulgated in the current Master Aviation Plan. This Operational, Safety and Improvement Program (OSIP) will correct operational discrepancies discovered during testing and evaluations, sustainment activities, engineering analysis, standard depot level evaluations, and during normal fleet operations. This OSIP provides resources to correct such issues via Engineering Change Proposal (ECP) and other applicable procurement efforts by modifying, improving, and restoring aircraft structural safety and reliability to designed/required life limits. Modifications are to include: Air Frame Structural Upgrades, such as Flight Controls Surfaces, Forward Fuselage, Aft Fuselage, Inner/Outer Wing, Critical Structures; and Aircraft Subsystem Upgrades, such as Electrical, Hydraulic, Environmental Control Systems (ECS), Fuel, Launch & Recovery, Critical Structures, Mechanical, Secondary Power, Fire Suppression Systems and other sustainment activities. This OSIP will provide modifications to Flight Control Computer (FCC) Operational Flight Programs (OFP) and provide other upgrades to integrate Maritime Augmented Guidance with Integrated Controls for Carrier Approach and Recovery Precision Enabling Technologies (MAGIC CARPET).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Each change has been or will be tested prior to installation in the F/A-18E/F and EA-18G.

NOTE: Kit procurements were budgeted and executed properly, in alignment with planned organic depot inductions. Aircraft inductions have exceeded depot capacity due to many aircraft reaching service life limits at the same time, increased turnaround time due to material degradation and corrosion repairs over and above planned modification efforts, and delays caused by sequestration which increased the number of Out of Reporting (OOR) aircraft. Due to these depot constraints, prior year kit procurements became misaligned with aircraft installations. Depot level kit installations have been impacted by depot throughput constraints and backlog. The install schedules reflected in this budget take into account the current constrained depot throughput and backlog. Any disruptions to the current budget will disrupt on-going modifications required to address OOR aircraft.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Models of Systems Affected: F/A-18 E/F & EA-18G	Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)												
A Kits												
Recurring												
1.1.1) ECP-590 CRU-123 SSOM - Organic	88 / 0.805	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	531 / 9.000	619 / 9.805
1.1.2) ECP 615 GGU12/A Oxygen Concentrators Upgrade (OBOGS) - Organic	- / -	773 / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	773 / 4.000
1.1.3) ECP-1049 Fuel Pressurization System Check Valve Failure - NonOrganic	59 / 0.098	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 0.098
1.1.4) ECP-1137NI: Fire Extinguisher Temp Compensating Pressure Switch (TCPS) - NonOrganic	4 / 0.033	10 / 0.034	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.067
1.1.5) ECP-5046C1 BALD Transponder Rotation - Change Incorporation Level - NonOrganic	42 / 0.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 0.090
1.1.6) ECP-5073: Retrofit of the Trailing Edge Flap Fastener Hole Cold Working - NonOrganic	- / -	36 / 0.366	31 / 0.321	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 0.687
1.1.7) ECP-6089R1 Engine Bay Door Strut Redesign - NonOrganic	69 / 0.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	69 / 0.003
1.1.8) ECP-6106R1 Exhaust Overtemp Final Fix/Bard Stacks - NonOrganic	223 / 15.966	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	223 / 15.966
1.1.9) ECP-6188 Y436 Inlet Former - NonOrganic	183 / 1.912	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	183 / 1.912
1.1.10) ECP-6193R1/R2 (LEX) Lwr Surface/Structure Cracks Redesign Y286 / Y294 - NonOrganic	219 / 27.472	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	219 / 27.472
1.1.11) ECP-6198 Radar Bay Vent Valve Fail - MSP 862 - NonOrganic	91 / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	91 / 0.005
1.1.12) ECP-6206 Y679 Former Boot Strap Interface Fillet Seal Missing - NonOrganic	78 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	78 / 0.014
1.1.13) ECP-6213R2 / TEF Redesign - Organic	98 / 77.247	- / -	79 / 63.169	42 / 34.058	- / -	42 / 34.058	46 / 38.541	61 / 52.228	90 / 78.047	51 / 45.523	61 / 54.290	528 / 443.103
1.1.14) ECP-6217 Cockpit Pressure Warning System (CPWS) - NonOrganic	279 / 2.869	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	279 / 2.869
1.1.15) ECP-6221 Bay \$L-Y357 Bulkhead Horizontal Flange Life Limit - NonOrganic	110 / 1.028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 1.028
1.1.16) ECP-6227C2 Inlet Nacelle Bleed Plate Crack - NonOrganic	144 / 1.519	72 / 0.870	72 / 0.885	12 / 0.150	- / -	12 / 0.150	- / -	- / -	- / -	- / -	- / -	300 / 3.424
1.1.17) ECP-6231 ECS/APU Bay Sealing Issues - NonOrganic ⁽²⁰⁾	7 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / -
1.1.18) ECP-6234C1 Horizontal Stabilator/Fuselage Rubbing - NonOrganic	35 / 0.700	36 / 0.125	36 / 0.127	36 / 0.129	- / -	36 / 0.129	36 / 0.132	36 / 0.134	36 / 0.136	7 / 0.027	- / -	258 / 1.510

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Models of Systems Affected: F/A-18 E/F & EA-18G	Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
1.1.19) ECP-6238 Inadequate Clearance - APU Surge Cntrl Valve & Y568 Spt - NonOrganic	47 / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 0.022
1.1.20) ECP-6240R1 / FT50 18K MLG Sidebrace Fitting Failure - NonOrganic	216 / 9.620	- / -	48 / 2.415	32 / 1.639	- / -	32 / 1.639	- / -	- / -	- / -	- / -	- / -	296 / 13.674
1.1.21) ECP-6241R1 / Wing-Aft Shear Tie Bushing Migration - NonOrganic	126 / 0.170	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	126 / 0.170
1.1.22) ECP-6245 Inboard Wing Closure Bolt, Anti-Rotation Retainer - NonOrganic	21 / 0.247	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.247
1.1.23) ECP-6249 Nut Plate Installation Sealing - NonOrganic	212 / 0.107	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	212 / 0.107
1.1.24) ECP-6262 Y591 Bulkhead Missing Fasteners at Keel Longeron - NonOrganic	181 / 1.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	181 / 1.082
1.1.25) ECP-6308 ECS warm air duct deflections - NonOrganic	218 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	218 / -
1.1.26) ECP-6322 Dry Bay Fire Suppression System (DBFSS) - NonOrganic	101 / 0.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	101 / 0.417
1.1.27) ECP-6325 Y618 Inbrd Former / Keel Longeron Areestment Load - NonOrganic	456 / 0.519	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	456 / 0.519
1.1.28) ECP-6353 F/A-18E/F Lower Wing Hinge Corrosion Improvements - NonOrganic	202 / 1.995	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	202 / 1.995
1.1.29) ECP-6366 Outer-Wing Inboard Aileron Hinge and SPAR 4 - NonOrganic	79 / 1.623	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 1.623
1.1.30) ECP-6372 Y233 Bulkhead Rudder / Break Pully Bracket Attachment - NonOrganic	349 / 0.118	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	349 / 0.118
1.1.31) ECP-6388 Outer-Wing Water Drainage Provisions - NonOrganic	337 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	337 / -
1.1.32) ECP-6394R1: F/A-18E/F Horizontal Stab Gang Channel Corrosion Provisions - NonOrganic	2 / 0.011	72 / 1.045	72 / 0.937	72 / 0.954	- / -	72 / 0.954	72 / 0.971	72 / 0.985	67 / 0.966	- / -	- / -	429 / 5.869
1.1.33) ECP-6416 Environment Control Sys Anti-Ice Duct Bracket - NonOrganic	210 / 1.325	72 / 0.648	72 / 0.648	72 / 0.688	- / -	72 / 0.688	38 / 0.370	- / -	- / -	- / -	- / -	464 / 3.679
1.1.34) ECP-6428 Removal of Vertical Tail Drain Common to Fuel Vent Tank - NonOrganic	386 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	386 / -
1.1.35) ECP-6430 Enhancement of the Aft Pivot Support Fitting - NonOrganic	282 / 2.675	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	365 / 3.605	647 / 6.280
1.1.36) ECP 6462 Flight Control Computer OFP - NonOrganic	- / -	- / -	- / -	72 / 4.271	- / -	72 / 4.271	72 / 4.348	72 / 4.426	37 / 2.315	72 / 4.587	- / -	325 / 19.947
1.1.37) ECP-XX12 FT50 Teardown Bulkhead Cracking - NonOrganic	- / -	- / -	72 / 0.927	72 / 0.944	- / -	72 / 0.944	72 / 0.961	72 / 0.978	37 / 0.512	- / -	- / -	325 / 4.322
1.1.38) ECP-XX33 / Hydraulics Components Improvement - NonOrganic	- / -	- / -	72 / 0.066	72 / 0.067	- / -	72 / 0.067	72 / 0.068	11 / 0.011	- / -	- / -	- / -	227 / 0.212

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0525 / F-18 Series
		Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Models of Systems Affected: F/A-18 E/F & EA-18G	Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
1.1.39) ECP-XX45 / FT50 Structural Related Issues - NonOrganic	- / -	- / -	72 / 5.937	72 / 6.044	- / -	72 / 6.044	72 / 6.153	72 / 6.263	37 / 3.277	- / -	- / -	325 / 27.674
1.1.40) ECP-XX48 / Fuel Tank Wiring Retrofit Improvements - NonOrganic	- / -	- / -	72 / 0.420	72 / 0.428	- / -	72 / 0.428	72 / 0.435	72 / 0.443	72 / 0.451	109 / 0.699	- / -	469 / 2.876
1.1.41) ECP-XX50: F/A-18E/F Fuel Related Upgrade Issues - Organic	- / -	- / -	100 / 0.583	100 / 0.594	- / -	100 / 0.594	100 / 0.605	100 / 0.615	100 / 0.627	- / -	- / -	500 / 3.024
1.1.42) ECP-XX51 / F/A-18E/F ECS Subsystem Upgrade Issues - NonOrganic	- / -	- / -	72 / 0.475	72 / 0.484	- / -	72 / 0.484	72 / 0.492	72 / 0.501	72 / 0.510	140 / 1.018	- / -	500 / 3.480
1.1.43) ECP-XX52 / F/A-18E/F Subsystem Retrofit Upgrade Issues - NonOrganic	- / -	- / -	72 / 0.594	72 / 0.604	- / -	72 / 0.604	72 / 0.615	72 / 0.626	72 / 0.638	140 / 1.273	- / -	500 / 4.350
1.1.44) ECP-XX53 / F/A-18E/F Structure Stress Corrosion Cracking Issues - NonOrganic	- / -	- / -	72 / 1.583	72 / 1.612	- / -	72 / 1.612	72 / 1.641	72 / 1.670	72 / 1.700	140 / 3.395	- / -	500 / 11.601
1.1.45) ECP-XX55: F/A-18 OBOGS Catalyst Integration Modline - NonOrganic	- / -	- / -	72 / 0.079	72 / 0.081	- / -	72 / 0.081	72 / 0.082	72 / 0.084	72 / 0.085	140 / 0.170	- / -	500 / 0.581
1.1.46) ECP-XX60: NACES Retrofit Upgrades - Organic	100 / 2.882	100 / 2.848	100 / 1.659	100 / 1.630	- / -	100 / 1.630	125 / 2.074	- / -	- / -	- / -	- / -	525 / 11.093
1.1.47) ECP-6470 Redesign Of The Hydraulic Pump Return Hose - Organic	- / -	687 / 3.411	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	687 / 3.411
1.1.48) ECP-6474 Secondary Bleed Air Regulator Bay Bleed Air Leak Detection - Organic	- / -	684 / 0.357	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	684 / 0.357
1.1.49) ECP-6475 Aux Power Unit Hydraulic Accumulator Support Bracket - NonOrganic	- / -	- / -	- / -	72 / 0.576	- / -	72 / 0.576	72 / 0.586	72 / 0.597	72 / 0.608	208 / 1.809	- / -	496 / 4.176
1.1.50) ECP-6476 Aerial Refueling Pressure Regulator Removal - Organic	- / -	- / -	- / -	578 / 2.890	- / -	578 / 2.890	- / -	- / -	- / -	- / -	- / -	578 / 2.890
1.1.51) ECP-XX61 Anti-Ice Add Heat Valve Improvement - NonOrganic	- / -	- / -	- / -	72 / 0.190	- / -	72 / 0.190	72 / 0.193	72 / 0.197	72 / 0.200	72 / 0.204	- / -	360 / 0.984
1.1.52) Fatigue Test (FT) 50 (Structures) Prior Year ECPs - NonOrganic ⁽²¹⁾	2,697 / 6.995	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,697 / 6.995
1.1.53) Fatigue Test (FT) 76/77/78 (Wing) Prior Year ECPs - NonOrganic ⁽²²⁾	1,120 / 31.610	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,120 / 31.610
1.1.54) Main Landing Gear (MLG) Prior Year ECPs - NonOrganic ⁽²³⁾	140 / 0.606	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	140 / 0.606
1.1.55) Archived ECPs - Organic	18,031 / 134.979	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18,031 / 134.979
Subtotal: Recurring	- / 326.764	- / 13.704	- / 80.825	- / 58.033	- / -	- / 58.033	- / 58.267	- / 69.758	- / 90.072	- / 58.705	- / 66.895	- / 823.023
Non-Recurring												
1.2.1) Installation Kits N/R - Organic	- / 58.507	- / 11.075	- / 11.667	- / 10.761	- / -	- / 10.761	- / 14.297	- / 15.921	- / 53.902	- / 96.427	- / -	- / 272.557
Subtotal: Non-Recurring	- / 58.507	- / 11.075	- / 11.667	- / 10.761	- / -	- / 10.761	- / 14.297	- / 15.921	- / 53.902	- / 96.427	- / -	- / 272.557

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)			
Models of Systems Affected: F/A-18 E/F & EA-18G					Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
B Kits													
Recurring													
2.1.1) ECP-6394R1 (F/A-18E/F Horiz Stab Gang Channel Corrosion - Organic	- / -	72 / 0.110	72 / 0.112	72 / 0.114	- / -	72 / 0.114	72 / 0.116	135 / 0.221	72 / 0.120	- / -	- / -	495 / 0.793	
2.1.2) ECP-6428 Removal of Vertical Tail Drain Common to Fuel Vent Tank - Organic	- / -	- / -	144 / 0.095	124 / 0.083	- / -	124 / 0.083	72 / -	- / -	- / -	- / -	- / -	340 / 0.178	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / 0.110</i>	<i>- / 0.207</i>	<i>- / 0.197</i>	<i>- / -</i>	<i>- / 0.197</i>	<i>- / 0.116</i>	<i>- / 0.221</i>	<i>- / 0.120</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.971</i>	
<i>Subtotal: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)</i>	<i>27,242 / 385.271</i>	<i>2,614 / 24.889</i>	<i>1,402 / 92.699</i>	<i>2,032 / 68.991</i>	<i>- / -</i>	<i>2,032 / 68.991</i>	<i>1,353 / 72.680</i>	<i>1,135 / 85.900</i>	<i>980 / 144.094</i>	<i>1,079 / 155.132</i>	<i>957 / 66.895</i>	<i>38,794 / 1,096.551</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 385.271</i>	<i>- / 24.889</i>	<i>- / 92.699</i>	<i>- / 68.991</i>	<i>- / -</i>	<i>- / 68.991</i>	<i>- / 72.680</i>	<i>- / 85.900</i>	<i>- / 144.094</i>	<i>- / 155.132</i>	<i>- / 66.895</i>	<i>- / 1,096.551</i>	
Support (All Modification Items)													
3.2) Data	- / 2.823	- / 0.035	- / -	- / 0.293	- / -	- / 0.293	- / -	- / -	- / -	- / -	- / -	- / 3.151	
3.3) Training Equipment	- / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	
3.4) Support Equipment	- / 11.734	- / 3.824	- / 3.892	- / 3.962	- / -	- / 3.962	- / 4.034	- / 4.106	- / 4.180	- / 4.256	- / 4.332	- / 44.320	
3.5) ILS ⁽²⁴⁾	- / 174.531	- / 11.026	- / 12.622	- / 13.008	- / -	- / 13.008	- / 13.242	- / 13.480	- / 13.723	- / 13.971	- / 14.222	- / 179.825	
3.6) Other Support	- / 143.581	- / 17.221	- / 17.442	- / 17.747	- / -	- / 17.747	- / 18.168	- / 18.518	- / 18.848	- / 19.167	- / 19.512	- / 190.204	
3.8) Installation Cost ⁽²⁵⁾	5,051 / 90.884	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5,051 / 90.884	
<i>Subtotal: Support</i>	<i>- / 223.554</i>	<i>- / 32.106</i>	<i>- / 33.956</i>	<i>- / 35.010</i>	<i>- / -</i>	<i>- / 35.010</i>	<i>- / 35.444</i>	<i>- / 36.104</i>	<i>- / 36.751</i>	<i>- / 37.394</i>	<i>- / 38.066</i>	<i>- / 508.385</i>	
Installation													
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)	- / 64.414	- / 24.771	- / 35.337	- / 39.919	- / -	- / 39.919	- / 45.898	- / 37.691	- / 31.871	- / 15.115	- / 39.824	- / 334.840	
<i>Subtotal: Installation</i>	<i>- / 64.414</i>	<i>- / 24.771</i>	<i>- / 35.337</i>	<i>- / 39.919</i>	<i>- / -</i>	<i>- / 39.919</i>	<i>- / 45.898</i>	<i>- / 37.691</i>	<i>- / 31.871</i>	<i>- / 15.115</i>	<i>- / 39.824</i>	<i>- / 334.840</i>	
Total													
Total Cost (Procurement + Support + Installation)	673.239	81.766	161.992	143.920	-	143.920	154.022	159.695	212.716	207.641	144.785	1,939.776	

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series		Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)		
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)							
Manufacturer Information							
Manufacturer Name: Boeing - ECP 6394R1 F/A-18E/F Horizontal Stab Gang Channel Corrosion				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 22			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	
Delivery Dates	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021	Apr 2022	
Manufacturer Name: Boeing - ECP 6462 Flight Control Computer OFP				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates			Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Boeing - ECPs 6416 Environmental Control Sys Anti-Ice Duct Bracket				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2015	Oct 2016	Oct 2017	Oct 2018			
Delivery Dates	Oct 2017	Oct 2018	Oct 2019	Oct 2020			
Manufacturer Name: Boeing - ECP-6106R1 Exhaust Overtemp Final Fix/Bard Stacks				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP-6193R1/R2 (LEX) Lwr Surface/Structure Cracks Redesign Y286 / Y294				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 22			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - ECP-6227C2 Inlet Nacelle Bleed Plate Crack				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 16			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015	Jun 2016	Jun 2017				

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series		Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)		
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)							
Manufacturer Information							
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Delivery Dates	Oct 2016	Oct 2017	Oct 2018				
Manufacturer Name: Meggitt - ECP 1137/Redesign of Fire Extinguisher Temp. Compensating Pressure Switch				Manufacturer Location: Simi Valley, CA			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2015						
Delivery Dates	Oct 2016						
Manufacturer Name: CKA - ECP 5073 Retrofit of the Trailing Edge Flap Fastener Hole Cold Working				Manufacturer Location: Orange Park, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 15			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2015					
Delivery Dates	Dec 2015	Dec 2016					
Manufacturer Name: Boeing - ECP 6234/C1 Horizontal Stabilator/Fuselage Rubbing				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Delivery Dates	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022
Manufacturer Name: Boeing - ECP 6240R1 FT50 18K MLG Sidebrace Fitting Failure				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2016	Oct 2017				
Delivery Dates		Oct 2018	Oct 2019				
Manufacturer Name: Various - Fatigue Test (FT) 50 (Structures) Prior Year ECPs				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Various - Fatigue Test (FT) 76/77/78 (Wing) Prior Year ECPs				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 24			

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Exhibit P-3a, Individual Modification: PB 2017 Navy						Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)	
Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)							
Manufacturer Information							
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Various - Main Landing Gear (MLG) Prior Year ECPs				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Various - Prior Year Procurements Less than \$5M				Manufacturer Location: Various			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 36			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Various - E/F Concurrent Installs				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 4			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021
Delivery Dates		Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Various - E/F/G Concurrent Installs				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 4			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021
Delivery Dates		Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Boeing - ECP 6430 Enhancement of the Aft Pivot Support Fitting				Manufacturer Location: St. Louis, MO			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: Prior Year Procurements Less than 5M

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1,196 / 14.982	613 / 6.123	599 / 6.909	500 / 5.707	- / 0.000	500 / 5.707	397 / 4.467	242 / 1.309	86 / 0.524	- / -	- / 0.000	3,633 / 40.021
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,196 / 14.982	613 / 6.123	599 / 6.909	500 / 5.707	- / -	500 / 5.707	397 / 4.467	242 / 1.309	86 / 0.524	- / -	- / -	3,633 / 40.021

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1,196	155	156	150	152	159	151	144	145	133	127	121	119	111	103	93	90	62	62	60	58	22	21	22	21	-	-	-	-	-	3,633
Out	1,196	155	156	150	152	159	151	144	145	133	127	121	119	111	103	93	90	62	62	60	58	22	21	22	21	-	-	-	-	-	3,633

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-1137NI: Fire Extinguisher Temp Compensating Pres

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	4 / 0.006	- / 0.000	4 / 0.006	- / -	- / -	- / -	- / -	- / 0.000	4 / 0.006
FY 2015	- / -	- / -	- / -	10 / 0.016	- / -	10 / 0.016	- / -	- / -	- / -	- / -	- / -	10 / 0.016
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	14 / 0.022	- / -	14 / 0.022	- / -	- / -	- / -	- / -	- / -	14 / 0.022

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-1137NI: Fire Extinguisher Temp Compensating Pres

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	-	7	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Out	-	-	-	-	-	-	-	-	-	7	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-5073: Retrofit of the Trailing Edge Flap Fastene

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	36 / 0.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.448
FY 2016	- / -	- / -	- / -	31 / 0.392	- / -	31 / 0.392	- / -	- / -	- / -	- / -	- / -	31 / 0.392
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	36 / 0.448	31 / 0.392	- / -	31 / 0.392	- / -	- / -	- / -	- / -	- / -	67 / 0.840

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	9	9	9	9	7	8	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67
Out	-	-	-	-	-	9	9	9	9	7	8	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6106R1 Exhaust Overtemp Final Fix/Bard Stacks

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	193 / 6.061	3 / 0.104	12 / 0.425	4 / 0.144	- / 0.000	4 / 0.144	4 / 0.147	4 / 0.149	3 / 0.114	- / -	- / 0.000	223 / 7.144

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6106R1 Exhaust Overtemp Final Fix/Bard Stacks

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	193 / 6.061	3 / 0.104	12 / 0.425	4 / 0.144	- / -	4 / 0.144	4 / 0.147	4 / 0.149	3 / 0.114	- / -	- / -	223 / 7.144

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	193	3	-	-	-	3	3	3	3	4	-	-	-	4	-	-	-	4	-	-	-	3	-	-	-	-	-	-	-	-	223
Out	193	3	-	-	-	3	3	3	3	4	-	-	-	4	-	-	-	4	-	-	-	3	-	-	-	-	-	-	-	-	223

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6193R1/R2 (LEX) Lwr Surface/Structure Cracks R

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	89 / 12.255	12 / 0.623	16 / 0.846	20 / 1.076	- / 0.000	20 / 1.076	20 / 1.085	20 / 1.099	20 / 1.115	22 / 1.255	- / 0.000	219 / 19.354
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	89 / 12.255	12 / 0.623	16 / 0.846	20 / 1.076	- / -	20 / 1.076	20 / 1.085	20 / 1.099	20 / 1.115	22 / 1.255	- / -	219 / 19.354

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6193R1/R2 (LEX) Lwr Surface/Structure Cracks R

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	89	3	3	3	3	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	5	-	219
Out	89	3	3	3	3	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	5	-	219

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6227C2 Inlet Nacelle Bleed Plate Crack

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 0.176	68 / 2.897	72 / 3.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	144 / 6.195
FY 2015	- / -	- / -	- / -	72 / 3.179	- / -	72 / 3.179	- / -	- / -	- / -	- / -	- / -	72 / 3.179
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	72 / 3.236	- / -	- / -	- / -	- / -	72 / 3.236
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.549	- / -	- / -	- / -	12 / 0.549
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 0.176	68 / 2.897	72 / 3.122	72 / 3.179	- / -	72 / 3.179	72 / 3.236	12 / 0.549	- / -	- / -	- / -	300 / 13.159

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	4	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	300
Out	4	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	300

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6234C1 Horizontal Stabilator/Fuselage Rubbing

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	33 / 0.317	2 / 0.020	- / 0.000	2 / 0.020	- / -	- / -	- / -	- / -	- / 0.000	35 / 0.337

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6234C1 Horizontal Stabilator/Fuselage Rubbing

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	36 / 0.332	- / -	36 / 0.332	- / -	- / -	- / -	- / -	- / -	36 / 0.332
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.338	- / -	- / -	- / -	- / -	36 / 0.338
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.345	- / -	- / -	- / -	36 / 0.345
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.351	- / -	- / -	36 / 0.351
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.381	- / -	36 / 0.381
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.381	36 / 0.381
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.054	7 / 0.054
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	33 / 0.317	38 / 0.352	- / -	38 / 0.352	36 / 0.338	36 / 0.345	36 / 0.351	36 / 0.381	43 / 0.435	258 / 2.519

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	8	8	8	9	11	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	43	258
Out	-	-	-	-	8	8	8	9	11	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	43	258

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6240R1 / FT50 18K MLG Sidebrace Fitting Failure

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	72 / 3.755	72 / 3.828	- / 0.000	72 / 3.828	72 / 3.897	- / -	- / -	- / -	- / 0.000	216 / 11.480
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.645	- / -	- / -	- / -	48 / 2.645
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 1.076	- / -	- / -	32 / 1.076
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	72 / 3.755	72 / 3.828	- / -	72 / 3.828	72 / 3.897	48 / 2.645	32 / 1.076	- / -	- / -	296 / 15.201

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6240R1 / FT50 18K MLG Sidebrace Fitting Failure

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	18	18	18	18	18	18	18	18	18	18	18	18	12	12	12	12	8	8	8	8	-	-	-	-	-	296
Out	-	-	-	-	-	18	18	18	18	18	18	18	18	18	18	18	18	12	12	12	12	8	8	8	8	-	-	-	-	-	296

Method of Implementation: [none specified]:: Installation Name: ECP-6394R1: F/A-18E/F Horizontal Stab Gang Channel Corrosion P

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	2 / 0.021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	2 / 0.021
FY 2015	- / -	- / -	- / -	72 / 0.770	- / -	72 / 0.770	- / -	- / -	- / -	- / -	- / -	72 / 0.770
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.782	- / -	- / -	- / -	- / -	72 / 0.782
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.791	- / -	- / -	- / -	72 / 0.791
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.805	- / -	- / -	72 / 0.805
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.820	- / -	72 / 0.820
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 0.834	67 / 0.834
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 0.021	72 / 0.770	- / -	72 / 0.770	72 / 0.782	72 / 0.791	72 / 0.805	72 / 0.820	67 / 0.834	429 / 4.823

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	1	-	-	-	-	36	36	-	-	36	36	-	-	36	36	-	-	36	36	-	-	36	36	67	429
Out	-	-	-	-	-	1	1	-	-	-	-	36	36	-	-	36	36	-	-	36	36	-	-	36	36	-	-	36	36	67	429

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6416 Environment Control Sys Anti-Ice Duct Brack

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	66 / 0.440	72 / 0.448	72 / 0.456	- / 0.000	72 / 0.456	- / -	- / -	- / -	- / -	- / 0.000	210 / 1.344

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-6416 Environment Control Sys Anti-Ice Duct Brack

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.464	- / -	- / -	- / -	- / -	72 / 0.464
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.472	- / -	- / -	- / -	72 / 0.472
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.481	- / -	- / -	72 / 0.481
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.218	- / -	38 / 0.218
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	66 / 0.440	72 / 0.448	72 / 0.456	- / -	72 / 0.456	72 / 0.464	72 / 0.472	72 / 0.481	38 / 0.218	- / -	464 / 2.979

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	12	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	10	10	10	8	-	464
Out	-	12	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	10	10	10	8	-	464

Method of Implementation: [none specified]:: Installation Name: ECP-6430 Enhancement of the Aft Pivot Support Fitting

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	30 / 2.452	72 / 4.992	- / 0.000	72 / 4.992	72 / 5.082	72 / 5.173	36 / 2.633	- / -	- / 0.000	282 / 20.332
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	365 / 25.307	365 / 25.307
Total	- / -	- / -	30 / 2.452	72 / 4.992	- / -	72 / 4.992	72 / 5.082	72 / 5.173	36 / 2.633	- / -	365 / 25.307	647 / 45.639

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP-6430 Enhancement of the Aft Pivot Support Fitting

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	7	7	7	9	18	18	18	18	18	18	18	18	18	18	18	18	9	9	9	9	-	-	-	-	365	647
Out	-	-	-	-	-	7	7	7	9	18	18	18	18	18	18	18	18	18	18	18	18	9	9	9	9	-	-	-	-	365	647

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP 6462 Flight Control Computer OFP

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	72 / 8.203	- / -	- / -	- / -	- / -	72 / 8.203
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 8.351	- / -	- / -	- / -	72 / 8.351
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 8.501	- / -	- / -	72 / 8.501
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 4.447	- / -	37 / 4.447
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 8.654	72 / 8.654
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	72 / 8.203	72 / 8.351	72 / 8.501	37 / 4.447	72 / 8.654	325 / 38.156

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	18	18	18	18	18	18	18	18	18	9	9	9	10	72	325
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	18	18	18	18	18	18	18	18	18	9	9	9	10	72	325

Method of Implementation: Navy Drive-in Modification:: Installation Name: E/F/G Concurrent Installs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: E/F/G Concurrent Installs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	360 / 2.166	- / -	360 / 2.166	- / -	- / -	- / -	- / -	- / -	360 / 2.166
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	504 / 2.570	- / -	- / -	- / -	- / -	504 / 2.570
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	504 / 2.615	- / -	- / -	- / -	504 / 2.615
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	443 / 2.505	- / -	- / -	443 / 2.505
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	362 / 1.620	- / -	362 / 1.620
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	529 / 1.515	529 / 1.515
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	360 / 2.166	- / -	360 / 2.166	504 / 2.570	504 / 2.615	443 / 2.505	362 / 1.620	529 / 1.515	2,702 / 12.991

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	90	90	90	90	126	126	126	126	126	126	126	126	111	111	111	110	90	90	90	92	529	2,702
Out	-	-	-	-	-	-	-	-	90	90	90	90	126	126	126	126	126	126	126	126	111	111	111	110	90	90	90	92	529	2,702

Method of Implementation: Navy Drive-in Modification:: Installation Name: E/F Concurrent Installs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	216 / 1.457	- / -	216 / 1.457	- / -	- / -	- / -	- / -	- / -	216 / 1.457
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	216 / 1.483	- / -	- / -	- / -	- / -	216 / 1.483
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / 1.510	- / -	- / -	- / -	216 / 1.510
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / 1.537	- / -	- / -	216 / 1.537
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / 1.582	- / -	216 / 1.582
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	420 / 3.079	420 / 3.079
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	216 / 1.457	- / -	216 / 1.457	216 / 1.483	216 / 1.510	216 / 1.537	216 / 1.582	420 / 3.079	1,500 / 10.648

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: E/F Concurrent Installs

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	420	1,500
Out	-	-	-	-	-	-	-	-	-	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	420	1,500

Method of Implementation: Navy Drive-In Modification:: Installation Name: Fatigue Test (FT) 50 (Structures) Prior Year ECPs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Prior Years	1,230 / 12.415	425 / 5.862	389 / 5.335	279 / 8.631	- / 0.000	279 / 8.631	153 / 7.967	85 / 7.829	85 / 8.366	51 / 4.792	- / 0.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,230 / 12.415	425 / 5.862	389 / 5.335	279 / 8.631	- / -	279 / 8.631	153 / 7.967	85 / 7.829	85 / 8.366	51 / 4.792	- / -	2,697 / 61.197

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1,230	106	106	106	107	97	97	97	98	69	70	70	70	38	38	38	39	21	21	21	22	21	21	21	22	12	13	13	13	-	2,697
Out	1,230	106	106	106	107	97	97	97	98	69	70	70	70	38	38	38	39	21	21	21	22	21	21	21	22	12	13	13	13	-	2,697

Method of Implementation: Navy Drive-in Modification:: Installation Name: Fatigue Test (FT) 76/77/78 (Wing) Prior Year ECPs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Prior Years	549 / 17.851	151 / 8.659	135 / 11.195	116 / 6.718	- / 0.000	116 / 6.718	95 / 6.177	63 / 4.854	11 / 3.863	- / -	- / 0.000

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: Fatigue Test (FT) 76/77/78 (Wing) Prior Year ECPs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	549 / 17.851	151 / 8.659	135 / 11.195	116 / 6.718	- / -	116 / 6.718	95 / 6.177	63 / 4.854	11 / 3.863	- / -	- / -	1,120 / 59.317

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	549	37	38	38	38	33	34	34	34	29	29	29	29	23	24	24	24	15	16	16	16	2	3	3	3	-	-	-	-	-	1,120
Out	549	37	38	38	38	33	34	34	34	29	29	29	29	23	24	24	24	15	16	16	16	2	3	3	3	-	-	-	-	-	1,120

Method of Implementation: Navy Drive-In Modification:: Installation Name: Main Landing Gear (MLG) Prior Year ECPs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	107 / 0.674	14 / 0.063	14 / 0.064	5 / 0.029	- / 0.000	5 / 0.029	- / -	- / -	- / -	- / -	- / 0.000	140 / 0.830
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	107 / 0.674	14 / 0.063	14 / 0.064	5 / 0.029	- / -	5 / 0.029	- / -	- / -	- / -	- / -	- / -	140 / 0.830

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Modification Item 1 of 1: E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: Main Landing Gear (MLG) Prior Year ECPs

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	107	5	3	3	3	5	3	3	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140
Out	107	5	3	3	3	5	3	3	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140

Method of Implementation (Organic): ECP-590 CRU-123 SSOM	Installation Quantity: 619
Method of Implementation (Organic): ECP 615 GGU12/A Oxygen Concentrators Upgrade (OBOGS) - Not Installed	Installation Quantity: 773
Method of Implementation (Organic): ECP-6213R2 / TEF Redesign	Installation Quantity: 528
Method of Implementation (Organic): ECP-XX50: F/A-18E/F Fuel Related Upgrade Issues	Installation Quantity: 500
Method of Implementation (Organic): ECP-XX60: NACES Retrofit Upgrades	Installation Quantity: 525
Method of Implementation (Organic): ECP-6470 Redesign Of The Hydraulic Pump Return Hose - Not Installed	Installation Quantity: 687
Method of Implementation (Organic): ECP-6474 Secondary Bleed Air Regulator Bay Bleed Air Leak Detection - Not Installed	Installation Quantity: 684
Method of Implementation (Organic): ECP-6476 Aerial Refueling Pressure Regulator Removal - Not Installed	Installation Quantity: 578
Method of Implementation (Organic): Archived ECPs - Not Installed	Installation Quantity: 18031
Method of Implementation (Organic): ECP-6394R1 (F/A-18E/F Horiz Stab Gang Channel Corrosion - Not Installed	Installation Quantity: 495
Method of Implementation (Organic): ECP-6428 Removal of Vertical Tail Drain Common to Fuel Vent Tank - Not Installed	Installation Quantity: 340

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

Footnotes:

(20) ECP-6231 kits were purchased under OSIP 19-01

(21) This cost element includes the following ECPs related to Fatigue Test (FT) 50 for Structures: ECP-6183R1 FT50 Failure of Upper Wing Skin Splice Plate; ECP-6239R1 FT50 18K Fuselage Outboard Form @Y679 Failure; ECP-6247R1 FT50 18K Y520 Former Cracks at Lower Drop Link; ECP-6266 FT50 18K Y555.5 and Y568 Former Cracks at Keel Longer Life Limit; ECP-6303R1 FT50 18K Y577 Former Redesign; ECP-6304R1 FT50 18K Web and Wing Drag Longer Redesign; ECP-6306R1 FT50 18K Y618 Inboard Former (74A342314) Redesign; ECP-6326 FT50 Fuel Barrier Web at Y510; ECP-6408C1 F/A-18 E/F FT50 Y233 Bulkhead Z90 Floor Attachment Retrofit; ECP-6411 F/A-18 E/F FT50 Inner-Wing Upper Splice Fitting @ Aft Fastner Skin on

(22) This cost element includes the following ECPs related to Fatigue Tests (FTs) 76/77/78 for Wings: ECP-6243 FT76 Jackpoint Support Fitting Life Limit; ECP-6275C1 FT77 Wing Inboard Closure Rib Life Limit; ECP-6282 FT77 Wing Pylon Changes; ECP-6285C1: FT77 Lower Wing Skin Splice Fitting Life Limit; ECP-6292 FT76 Avionics Bay 3 & 4 Door Hinges ECP-6295 FT77 Wing Spar 6 Life Limit; ECP-6309 FT77 Retrofit ECP for the Outer Wing; ECP-6341 FT77/78 Aileron Retrofit

(23) This cost element includes the following ECPs related to the Main Landing Gear (MLG): ECP-6104 MLG Door Bushing Migration ECP-6194 MLG Trunnion Bearing Loose Retention Nut ECP-6196C1 MLG R/H Upper Planing Link Attach Fitting Failure

(24) ILS increases in FY16 due to increased number of ECPs being procured and installed.

(25) Installation costs vary by FY due to different ECPs being installed.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	183.607	61.444	117.155	119.974	-	119.974	105.872	123.564	282.943	279.786	1,610.758	2,885.103
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	183.607	61.444	117.155	119.974	-	119.974	105.872	123.564	282.943	279.786	1,610.758	2,885.103
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	183.607	61.444	117.155	119.974	-	119.974	105.872	123.564	282.943	279.786	1,610.758	2,885.103

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) is required to retrofit upgrades, manage obsolescence issues, and improvements to various avionics systems that have been or are being incorporated into fleet aircraft, to provide updates to Automated Maintenance Environment (AME) and the integrated electronic technical manuals, and to provide mission planning updates. Specifically for mission planning, the F/A-18 Unique Planning Component (UPC) for the Joint Mission Planning System (JMPS) must implement frequent software changes in conjunction with production aircraft modifications. The JMPS UPC changes required in conjunction with System Configuration Set (SCS) changes must include software regression tests to ensure proper operation and integration with other aircraft systems in JMPS components, and the core mission planning equipment and software procured elsewhere within the Navy budget.

Upgrades include replacement of the Hi-8mm video tape recorder with a retrofit of Solid State Recorder (SSR) into United States Navy and Marine Corps Lot 4-25 F/A-18A+/B/C/D/E/F aircraft. Installation of the Cockpit Video Recording System (CVRS) is a mandatory pre-requisite for the SSR upgrade for F/A-18C/D. This OSIP includes the retrofit completion of the CVRS in unmodified F/A-18C/D aircraft. Upgrades also include replacement of the black and white Heads Up Display (HUD) camera with a retrofit of a color HUD camera to address technology obsolescence and configuration differences introduced by the Joint Helmet Mounted Cueing System (JHMCS) in Lot 4-11 F/A-18A-D aircraft (Lot 7-9 F/A-18A++ will require wiring modification). Installation of the SSR for Lots 23-24 F/A-18E/F will be performed concurrent with the upgrade retrofit installation of the Type 2 Advanced Mission Computer (AMC) and the JHMCS in OSIP 24-00. This OSIP also includes a requirement to retrofit the Deployable Flight Incident Recorder Set (DIFRS) to address component obsolescence including the search and rescue satellite aided tracking beacon. Upgrades also include an F/A-18 retrofit installation of the AMC or Advanced Capability Mission Computer (ACMC) as a replacement for the AYK-14 computer. Upgrade includes a retrofit installation of the ACMC into EA-18G aircraft. Upgrades include a retrofit of the Fiber Channel Network Switch (FCNS) with a 24 port switch (FCNS-24) into EA-18G aircraft. Upgrade also includes retrofit installation of various display hardware improvements to enable increased aircrew situational awareness such as replacement of the Multipurpose Color Display (MPCD) with MPCDR (Replacement) to meet hardware requirement for H12 OFP display improvements. Upgrades include retrofit of USMC F/A-18C/D aircraft with the ACMC, display upgrades including the left/right 5x5 advanced multi-purpose display, up-front control display-replacement, and MPCDR, stores management system upgrades, DTU and associated software and engineering requirements. The efforts will include integration of the hardware and the software as well as the Integrated Logistics Support (ILS) products.

It will also support updates to Operational Flight Program (OFP) for on-going aircraft modernization and modification efforts which necessitate periodic software releases. The procurement of SCS is not a stand alone cost but integration for the overall improvement to the end item to allow the integration of new capabilities and or performances to be complete. The SCS builds anticipated are used to support retrofit hardware configuration changes and the accompanying software change and associated testing driven by the Aircraft Procurement, Navy 5 (APN-5) funded OSIPs. SCS integration will comprise of OFP, recurring and non-recurring engineering, Naval Integrated Fire Control (NIFCA) required modifications, Link 16 Inject modifications, support equipment and simulation equipment test program sets updates, operational analysis and functional retrofit implementation of aircrew and maintenance training systems, OFP memory loader verifier set personal computer memory card international association cards, and update of SCS to allow single point loading of software from the advanced memory unit or digital memory device and associated software licenses and data rights and publication updates. The miniaturized airborne Global Positioning System (GPS) receiver retrofit implements an advanced GPS that increases platform navigation accuracy and smart weapon targeting solutions. This OSIP will implement a Precision Approach and Landing Capability (PALC) that will provide an onboard precision approach capability in the event of adverse weather conditions. The PALC requirement can be met with either the Civilian Instrument Landing System (C-ILS) or the wide area augmentation system.

Note: Funding for NAVWAR kits in FY17 - FY20 will be realigned to BLI 0577, which is the more appropriate BLI for that effort.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

A mission planning system supporting F/A-18A-F is currently fielded. A JMPS was developed and fielded for F/A-18A-F in the first quarter of Fiscal Year 2005 with 19C and H2E+. The SSR retrofit was approved as a Congressional new start in August 2004. Lot 26-28 F/A-18E/F validation/verification for the SSR was completed in the second and third quarter fiscal year March 2005, with retrofit on two squadrons completed in the fourth quarter of fiscal year 2005. Lot 23-25 F/A-18E/F validation for the SSR was completed in the second quarter fiscal year 2013. Lot 23-24 F/A-18E/F validation for the Type 2 AMC was completed in the fourth quarter fiscal year 2012 and second quarter fiscal year 2013. Verifications were completed in fourth quarter fiscal year 2014. Installations began in third quarter fiscal year 2015. Verification for the SSR was completed in fiscal year 2014 concurrent with Type 2 AMC. ECP-NI-F/A-18-1146-12 for the SSR for Lot 12-22 F/A-18A-F was approved by the NAVAIR Configuration Control Board in September 2013. Validation and verification of the SSR for Lot 13-21 F/A-18C/D were completed in the third quarter of fiscal year 2014 and second quarter of fiscal year 2015, respectively. Validation for Lot 21-22 F/A-18E/F was completed in fourth quarter fiscal year 2015. Validation for Lot 4-11 F/A-18A-D is scheduled for second quarter fiscal year 2016.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)

Models of Systems Affected: F/A-18A-F and EA-18G	Modification Type: Capability and Reliability Improvements	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)

A Kits

Recurring

1.1.1) ECP-6212R1 F/A-18E SSR - NonOrganic ⁽²⁶⁾	40 / 0.694	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.694
1.1.2) ECP-6212R1 F/A-18F SSR - NonOrganic ⁽²⁷⁾	56 / 1.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 1.101
1.1.3) DFIRS - Organic	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.878	60 / 3.824	60 / 3.892	60 / 3.962	185 / 12.218	395 / 25.774
1.1.4) ECP 1146-12 (SSR Hi8) AFC-630 Lot 12-21 C - NonOrganic	276 / 2.081	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	276 / 2.081
1.1.5) ECP 1146-12 (SSR Hi8) AFC-631 Lot 12-21 D - NonOrganic	115 / 1.693	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 1.693
1.1.6) ECP 1146-12 (SSR Hi8) AFC-633 Lot 18-22 E/F - NonOrganic	32 / 0.308	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.308
1.1.7) Display Improvements (HW) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	213 / 4.250	38 / 0.750	- / -	251 / 5.000
1.1.8) Civilian ILS A-kits - NonOrganic	95 / 9.240	42 / 2.251	15 / 1.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	152 / 12.516
1.1.9) Type 2 Advanced Mission Computer (AMC) kits (ECP 6267R1) - NonOrganic ⁽²⁸⁾	2 / 0.000	6 / -	12 / -	17 / -	- / -	17 / -	23 / -	- / -	- / -	- / -	- / -	60 / -
1.1.10) NAVWAR Kits - Organic ⁽²⁹⁾	- / -	- / -	- / -	24 / 2.988	- / -	24 / 2.988	24 / 3.001	24 / 3.028	24 / 3.096	- / -	- / -	96 / 12.113
1.1.11) A-Kits Archive - Organic	336 / 6.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	336 / 6.878
Subtotal: Recurring	- / 21.995	- / 2.251	- / 1.025	- / 2.988	- / -	- / 2.988	- / 4.879	- / 6.852	- / 11.238	- / 4.712	- / 12.218	- / 68.158

Non-Recurring

1.2.1) Installation Kits N/R - Organic ⁽³⁰⁾	- / 10.681	- / -	- / 21.567	- / 1.266	- / -	- / 1.266	- / -	- / -	- / -	- / -	- / 22.000	- / 55.514
Subtotal: Non-Recurring	- / 10.681	- / -	- / 21.567	- / 1.266	- / -	- / 1.266	- / -	- / -	- / -	- / -	- / 22.000	- / 55.514

B Kits

Recurring

2.1.1) Stores Management Upgrade (SMUG) (ECP 6042) - NonOrganic ⁽³¹⁾	59 / 1.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 1.878
2.1.2) F/A-18C/D Cockpit Video Recording System (CVRS) - NonOrganic ⁽³²⁾	17 / 0.219	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.219
2.1.3) Display Improvements (HW) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	225 / 9.358	38 / 1.651	- / -	263 / 11.009
2.1.4) ECP 6459 Advanced Capability Mission Computer - Organic	- / -	- / -	40 / 22.000	38 / 21.276	- / -	38 / 21.276	41 / 23.369	46 / 26.691	50 / 29.534	116 / 69.752	197 / 120.591	528 / 313.213

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)			
Models of Systems Affected: F/A-18A-F and EA-18G					Modification Type: Capability and Reliability Improvements					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
2.1.5) ECP 6456 Fibre Channel Network Switch (FCNS-24) - Organic	- / -	- / -	42 / 3.360	46 / 3.746	- / -	46 / 3.746	50 / 4.145	- / -	172 / 14.778	- / -	- / -	310 / 26.029	
2.1.6) USMC Avionics Upgrade Kits (AMCs and Displays) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 39.200	18 / 25.654	19 / 27.566	55 / 81.223	120 / 173.643	
2.1.7) Type 3 Mission Computer 4th Processor - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	250 / 12.500	256 / 13.030	- / -	506 / 25.530	
2.1.8) Single Point data loader (SW) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.369	- / 7.000	- / -	- / 13.369	
2.1.9) PALC B-Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.491	60 / 3.000	60 / 3.050	456 / 22.800	606 / 30.341	
2.1.10) SCS - Organic	- / 13.535	- / 5.844	- / 4.003	- / 4.037	- / -	- / 4.037	- / 4.100	- / 4.134	- / 4.229	- / 10.500	- / 1,017.414	- / 1,067.796	
2.1.11) MPI/UPC Software - Organic	- / 13.638	- / 10.952	- / 8.546	- / 4.668	- / -	- / 4.668	- / 5.878	- / 5.915	- / 8.340	- / 15.572	- / 134.566	- / 198.075	
2.1.12) 25X - Organic	- / 5.466	- / 1.871	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.337	
2.1.13) 27C (SCS) - Organic	- / 6.036	- / 3.190	- / 2.758	- / 1.479	- / -	- / 1.479	- / -	- / -	- / -	- / -	- / -	- / 13.463	
2.1.14) 29C (SCS) - Organic	- / -	- / -	- / 0.385	- / 0.190	- / -	- / 0.190	- / 0.195	- / 0.415	- / 1.483	- / -	- / -	- / 2.668	
2.1.16) H10 (SCS) - Organic	- / -	- / 0.211	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.211	
2.1.17) H12 (SCS) - Organic	- / -	- / 0.977	- / 2.800	- / 0.954	- / -	- / 0.954	- / 0.064	- / -	- / -	- / -	- / -	- / 4.795	
2.1.18) H14 (SCS) - Organic	- / 2.000	- / -	- / 1.244	- / 1.668	- / -	- / 1.668	- / 4.347	- / 4.658	- / 59.365	- / 0.200	- / 8.000	- / 81.482	
2.1.19) H16 (SCS) - Organic	- / -	- / -	- / -	- / 2.170	- / -	- / 2.170	- / 4.939	- / 4.617	- / 25.000	- / 12.000	- / 2.000	- / 50.726	
2.1.20) H18 (SCS) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.350	- / 1.900	- / 1.130	- / 20.000	- / 21.000	- / 45.380	
2.1.21) H20 (SCS) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.000	- / 33.000	- / 18.000	- / 63.000	
2.1.22) ALQ-214 JMPS UPC - Organic	- / -	- / -	- / 2.012	- / 2.550	- / -	- / 2.550	- / 2.601	- / 2.653	- / 5.000	- / 25.000	- / -	- / 39.816	
2.1.23) B-Kits Archive - Organic	906 / 54.568	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	906 / 54.568	
Subtotal: Recurring	- / 97.340	- / 13.045	- / 47.108	- / 42.738	- / -	- / 42.738	- / 50.988	- / 91.674	- / 217.740	- / 238.321	- / 1,425.594	- / 2,224.548	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽³³⁾	- / 1.576	- / 31.890	- / 22.703	- / 46.953	- / -	- / 46.953	- / 24.642	- / 7.818	- / 32.995	- / 14.769	- / 2.000	- / 185.346	
Subtotal: Non-Recurring	- / 1.576	- / 31.890	- / 22.703	- / 46.953	- / -	- / 46.953	- / 24.642	- / 7.818	- / 32.995	- / 14.769	- / 2.000	- / 185.346	
Subtotal: Core Avionics Improvements / Upgrades (OSIP 023-04)	1,934 / 131.592	48 / 47.186	109 / 92.403	125 / 93.945	- / -	125 / 93.945	168 / 80.509	188 / 106.344	1,072 / 261.973	587 / 257.802	893 / 1,461.812	5,124 / 2,533.566	
Subtotal: Procurement, All Modification Items	- / 131.592	- / 47.186	- / 92.403	- / 93.945	- / -	- / 93.945	- / 80.509	- / 106.344	- / 261.973	- / 257.802	- / 1,461.812	- / 2,533.566	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 1.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.080	
3.2) Data	- / 7.787	- / -	- / -	- / -	- / -	- / -	- / 10.104	- / 10.157	- / -	- / -	- / -	- / 8.048	
3.3) Training Equipment	- / 1.904	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	- / 2.504	
3.4) Support Equipment	- / 5.574	- / 0.161	- / 0.520	- / 0.560	- / -	- / 0.560	- / 0.645	- / 2.785	- / 0.760	- / 0.800	- / 8.000	- / 19.805	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)

Models of Systems Affected: F/A-18A-F and EA-18G	Modification Type: Capability and Reliability Improvements	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.5) ILS ⁽³⁴⁾	- / 10.779	- / 1.630	- / 2.668	- / 2.594	- / -	- / 2.594	- / 2.634	- / 2.710	- / 3.787	- / 3.630	- / 15.626	- / 46.058
3.6) Other Support ⁽³⁵⁾	- / 23.309	- / 8.254	- / 11.184	- / 10.888	- / -	- / 10.888	- / 10.912	- / 11.501	- / 12.223	- / 14.805	- / 110.419	- / 213.495
Subtotal: Support	- / 50.433	- / 10.045	- / 14.372	- / 14.042	- / -	- / 14.042	- / 14.295	- / 17.153	- / 16.770	- / 19.235	- / 134.645	- / 290.990
Installation												
Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)	- / 1.582	- / 4.213	- / 10.380	- / 11.987	- / -	- / 11.987	- / 11.068	- / 0.067	- / 4.200	- / 2.749	- / 14.301	- / 60.547
Subtotal: Installation	- / 1.582	- / 4.213	- / 10.380	- / 11.987	- / -	- / 11.987	- / 11.068	- / 0.067	- / 4.200	- / 2.749	- / 14.301	- / 60.547
Total												
Total Cost (Procurement + Support + Installation)	183.607	61.444	117.155	119.974	-	119.974	105.872	123.564	282.943	279.786	1,610.758	2,885.103

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series		Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)		
Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)							
Manufacturer Information							
Manufacturer Name: Various - SSR Mod Installs				Manufacturer Location: Various			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 31			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: General Electric (SMUG ECP 6042)				Manufacturer Location: Grand Rapids, MI			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: N/A - Type 2 Advanced Mission Computer (AMC) kits				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - Civilian ILS				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 7			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2015	Dec 2016					
Delivery Dates	Jul 2016	Jul 2017					
Manufacturer Name: Various - USMC Avionics Upgrade Kits (AMCs and Displays)				Manufacturer Location: Various			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Sep 2019	Sep 2020	Sep 2021
Delivery Dates					Sep 2020	Sep 2021	Sep 2022
Manufacturer Name: Boeing - F/A-18C/D Cockpit Video Recording System (CVRS)				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)

Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)

Installation Information

Method of Implementation: Navy Field mod Team:: Installation Name: SSR Mod Installs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 0.124	26 / 0.324	417 / 0.563	44 / 0.289	- / 0.000	44 / 0.289	15 / 0.168	6 / 0.067	- / -	- / -	- / 0.000	519 / 1.535
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 0.124	26 / 0.324	417 / 0.563	44 / 0.289	- / -	44 / 0.289	15 / 0.168	6 / 0.067	- / -	- / -	- / -	519 / 1.535

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot									
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4											
In	11	7	13	4	2	101	103	106	107	17	8	9	10	5	3	3	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	519
Out	11	7	13	4	2	101	103	106	107	17	8	9	10	5	3	3	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	519

Method of Implementation: Navy Drive-In Modification:: Installation Name: Civilian ILS A-kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	46 / 0.940	37 / 0.968	12 / 0.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	95 / 2.316
FY 2015	- / -	- / -	10 / 0.340	32 / 1.088	- / -	32 / 1.088	- / -	- / -	- / -	- / -	- / -	42 / 1.428
FY 2016	- / -	- / -	- / -	15 / 0.510	- / -	15 / 0.510	- / -	- / -	- / -	- / -	- / -	15 / 0.510
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	46 / 0.940	37 / 0.968	22 / 0.748	47 / 1.598	- / -	47 / 1.598	- / -	- / -	- / -	- / -	- / -	152 / 4.254

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)

Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: Civilian ILS A-kits

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	46	10	9	9	9	-	-	6	16	10	11	11	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152
Out	46	10	9	9	9	-	-	6	16	10	11	11	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152

Method of Implementation: Navy Field Modification Team:: Installation Name: Type 2 Advanced Mission Computer (AMC) kits (ECP 6)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.294	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	2 / 0.294
FY 2015	- / -	6 / 1.721	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.721
FY 2016	- / -	- / -	12 / 1.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.800
FY 2017	- / -	- / -	- / -	17 / 2.500	- / -	17 / 2.500	- / -	- / -	- / -	- / -	- / -	17 / 2.500
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	23 / 3.300	- / -	- / -	- / -	- / -	23 / 3.300
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.294	6 / 1.721	12 / 1.800	17 / 2.500	- / -	17 / 2.500	23 / 3.300	- / -	- / -	- / -	- / -	60 / 9.615

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	2	1	1	2	2	3	3	3	3	5	4	4	4	6	6	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
Out	2	1	1	2	2	3	3	3	3	5	4	4	4	6	6	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60

Method of Implementation: Drive-In Modification:: Installation Name: Stores Management Upgrade (SMUG) (ECP 6042)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	3 / 1.200	18 / 7.200	19 / 7.600	- / 0.000	19 / 7.600	19 / 7.600	- / -	- / -	- / -	- / 0.000	59 / 23.600

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)

Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)

Installation Information

Method of Implementation: Drive-In Modification:: Installation Name: Stores Management Upgrade (SMUG) (ECP 6042)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	3 / 1.200	18 / 7.200	19 / 7.600	- / -	19 / 7.600	19 / 7.600	- / -	- / -	- / -	- / -	59 / 23.600

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	1	1	1	-	4	4	5	5	4	5	5	5	4	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59
Out	-	1	1	1	-	4	4	5	5	4	5	5	5	4	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59

Method of Implementation: Navy Drive-In Modification:: Installation Name: F/A-18C/D Cockpit Video Recording System (CVRS)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	13 / 0.224	- / -	4 / 0.069	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	17 / 0.293
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	13 / 0.224	- / -	4 / 0.069	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.293

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)

Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: F/A-18C/D Cockpit Video Recording System (CVRS)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	13	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
Out	13	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17

Method of Implementation: Navy Drive-In Modification:: Installation Name: USMC Avionics Upgrade Kits (AMCs and Displays)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 4.200	- / -	- / -	28 / 4.200
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 2.749	- / -	18 / 2.749
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 2.955	19 / 2.955
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 11.346	55 / 11.346
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 4.200	18 / 2.749	74 / 14.301	120 / 21.250

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	-	-	-	18	74	120
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	-	-	-	18	74	120

Method of Implementation (Organic): DFIRS

Installation Quantity: 395

Method of Implementation (Organic): Display Improvements (HW)

Installation Quantity: 251

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)
Modification Item 1 of 1: Core Avionics Improvements / Upgrades (OSIP 023-04)		
Installation Information		
Method of Implementation (Organic): NAVWAR Kits - Not Installed		Installation Quantity: 96
Method of Implementation (Organic): A-Kits Archive - Not Installed		Installation Quantity: 336
Method of Implementation (Organic): Display Improvements (HW)		Installation Quantity: 263
Method of Implementation (Organic): ECP 6459 Advanced Capability Mission Computer		Installation Quantity: 528
Method of Implementation (Organic): ECP 6456 Fibre Channel Network Switch (FCNS-24)		Installation Quantity: 310
Method of Implementation (Organic): Type 3 Mission Computer 4th Processor - Not Installed		Installation Quantity: 506
Method of Implementation (Organic): PALC B-Kits - Not Installed		Installation Quantity: 606
Method of Implementation (Organic): B-Kits Archive - Not Installed		Installation Quantity: 906
Footnotes:		
<p>(26) ECP-6212R1 installs were realigned to match concurrent install schedule with Type 2 AMC (ECP-6267R1). ECP-6212R1 (AFC-557) applies to E/F Lots 23-25, and is dependent upon Type II Mission Computer prerequisite install from ECP-6267R1 (AFC-507 Lot 25 and AFC-506 Lot 23-24). AFC-507 is complete for E/F. AFC-506 has experienced significant delays due to the complexity of the aircraft modification. AFC-557 val/ver activity closed in FY14 enabling issuance of the technical directive to begin installs in Lot 25E/F. AFC-506 is planned for release in FY15 for Lot 23-24 E/F and installs have been scheduled to coincide with AFC-557.</p> <p>(27) ECP-6212R1 installs were realigned to match concurrent install schedule with Type 2 AMC (ECP-6267R1). ECP-6212R1 (AFC-557) applies to E/F Lots 23-25, and is dependent upon Type II Mission Computer prerequisite install from ECP-6267R1 (AFC-507 Lot 25 and AFC-506 Lot 23-24). AFC-507 is complete for E/F. AFC-506 has experienced significant delays due to the complexity of the aircraft modification. AFC-557 val/ver activity closed in FY14 enabling issuance of the technical directive to begin installs in Lot 25E/F. AFC-506 is planned for release in FY15 for Lot 23-24 E/F and installs have been scheduled to coincide with AFC-557.</p> <p>(28) Type 2 AMC A-kits were procured under BLI 05770 and are being installed under BLI 05250. Type 2 AMC B-kits have been removed from aircraft and replaced with Type 3 AMC kits, so there is no cost for B-kits. The B-kits are O-level installs so there is no associated install cost or schedule for B-kits.</p> <p>(29) Funding for NAVWAR kits and installs in FY17 - FY20 will be realigned to BLI 0577, which is the more appropriate BLI for that effort.</p> <p>(30) Installation Kits N/R increases in FY16 for DFIRS engineering efforts.</p> <p>(31) Kits were procured as a Life of Type Buy for FY14.</p> <p>(32) Four kits that were procured in prior years will be installed in FY16 due to aircraft availability.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Core Avionics Improvements / Upgrades (OSIP 023-04)

⁽³³⁾ Installation Equipment N/R increases in FY15 due to Congressional Add for USMC Improvements (displays, mission computers).

⁽³⁴⁾ ILS increases in FY16 due to start up of ECP 6459 (ACMC) and 6456 (FCNS-24) efforts.

⁽³⁵⁾ Other Support increases in FY16 due to start up of ECP 6459 (ACMC) and 6456 (FCNS-24) efforts.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 11 / Litening AT Targeting Pod (OSIP 024-04)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	162.364	1.182	1.269	0.989	-	0.989	1.074	0.018	-	-	1.087	167.983
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	162.364	1.182	1.269	0.989	-	0.989	1.074	0.018	-	-	1.087	167.983
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	162.364	1.182	1.269	0.989	-	0.989	1.074	0.018	-	-	1.087	167.983
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Litening AT Pod (AN-AAQ-28) possesses qualities essential to the Marine Corps' F/A-18A+/C/D's in the execution of operations within the combat spectrum providing the Marine Air Ground Task Force with crucial capabilities in the expeditionary land based environment. Litening AT Pod capabilities include: laser/Infrared (IR) marker functionality, image data link functionality, cooperative laser guided illumination, laser spot tracker, and limited weapons damage assessment capability. Northrop Grumman's Litening pod has demonstrated improved reliability and maintainability during combat operation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Litening is a commercial off the shelf non-developmental item. This Operational, Safety and Improvement Program (OSIP) funds hardware for modifications to include personal computer memory card international association cards, station four adapters, wiring kits, loaders, etc. as well as desired software enhancements to take advantage of new capabilities. Litening kits for F/A-18D (lots 14 and up) were procured in prior years and have reconnaissance wiring. Litening kits for F/A-18D (lots 12 and 13) are engineered for aircraft without reconnaissance wiring and were procured in FY13.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 11 / Litening AT Targeting Pod (OSIP 024-04)			
Models of Systems Affected: F/A-18A+/C/D				Modification Type: CAPABILITY IMPROVEMENTS				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Litening AT Targeting Pod (OSIP 024-04)</i>													
A Kits													
Recurring													
1.1.1) F/A-18C A-kits - NonOrganic ⁽³⁶⁾	95 / 2.912	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	95 / 2.912	
1.1.2) F/A-18D A-kits val/ver (Lots 12 and 13) - NonOrganic	2 / 0.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.295	
1.1.3) F/A-18D A-kits (Lots 12 and 13) - NonOrganic	23 / 0.718	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.937	38 / 1.655	
1.1.4) A-kits Archive - Organic	87 / 3.191	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	87 / 3.191	
<i>Subtotal: Recurring</i>	- / 7.116	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.937	- / 8.053	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 1.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.225	
<i>Subtotal: Non-Recurring</i>	- / 1.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.225	
B Kits													
Recurring													
2.1.1) B-kits Archive - Organic	64 / 120.716	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	64 / 120.716	
<i>Subtotal: Recurring</i>	- / 120.716	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 120.716	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 6.216	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.216	
<i>Subtotal: Non-Recurring</i>	- / 6.216	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.216	
<i>Subtotal: Litening AT Targeting Pod (OSIP 024-04)</i>	271 / 135.273	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.937	286 / 136.210	
<i>Subtotal: Procurement, All Modification Items</i>	- / 135.273	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.937	- / 136.210	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 10.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.025	
3.2) Data	- / 2.853	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.853	
3.3) Training Equipment	- / 0.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.289	
3.4) Support Equipment	- / 0.484	- / -	- / 0.117	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.601	
3.5) ILS ⁽³⁷⁾	- / 2.446	- / 0.020	- / 0.240	- / 0.244	- / -	- / 0.244	- / 0.249	- / -	- / -	- / -	- / -	- / 3.199	
3.6) Other Support ⁽³⁸⁾	- / 10.578	- / 1.048	- / 0.610	- / 0.614	- / -	- / 0.614	- / 0.625	- / -	- / -	- / -	- / -	- / 13.475	
<i>Subtotal: Support</i>	- / 26.675	- / 1.068	- / 0.967	- / 0.858	- / -	- / 0.858	- / 0.874	- / -	- / -	- / -	- / -	- / 30.442	
Installation													

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 11 / Litening AT Targeting Pod (OSIP 024-04)

Models of Systems Affected: F/A-18A+/C/D **Modification Type:** CAPABILITY IMPROVEMENTS **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Modification Item 1 of 1: Litening AT Targeting Pod (OSIP 024-04)	- / 0.416	- / 0.114	- / 0.302	- / 0.131	- / -	- / 0.131	- / 0.200	- / 0.018	- / -	- / -	- / 0.150	- / 1.331
<i>Subtotal: Installation</i>	- / 0.416	- / 0.114	- / 0.302	- / 0.131	- / -	- / 0.131	- / 0.200	- / 0.018	- / -	- / -	- / 0.150	- / 1.331
Total												
Total Cost (Procurement + Support + Installation)	162.364	1.182	1.269	0.989	-	0.989	1.074	0.018	-	-	1.087	167.983

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 11 / Litening AT Targeting Pod (OSIP 024-04)

Modification Item 1 of 1: Litening AT Targeting Pod (OSIP 024-04)

Manufacturer Information

Manufacturer Name: Northrop Grumman - F/A-18C A-kits				Manufacturer Location: Shamburg, IL			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: Northrop Grumman - F/A-18D A-kits				Manufacturer Location: Shamburg, IL			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 25			

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: F/A-18C A-kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	55 / 0.416	12 / 0.094	4 / 0.072	11 / 0.131	- / 0.000	11 / 0.131	12 / 0.200	1 / 0.018	- / -	- / -	- / 0.000	95 / 0.931
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	55 / 0.416	12 / 0.094	4 / 0.072	11 / 0.131	- / -	11 / 0.131	12 / 0.200	1 / 0.018	- / -	- / -	- / -	95 / 0.931

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot									
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4											
In	55	6	6	-	-	1	1	1	1	5	6	-	-	3	3	3	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95
Out	55	6	6	-	-	1	1	1	1	5	6	-	-	3	3	3	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 11 / Litening AT Targeting Pod (OSIP 024-04)

Modification Item 1 of 1: Litening AT Targeting Pod (OSIP 024-04)

Installation Information

Method of Implementation: :: Installation Name: Litening Pod F/A-18D

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	2 / 0.020	23 / 0.230	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	25 / 0.250
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.150	15 / 0.150
Total	- / -	2 / 0.020	23 / 0.230	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.150	40 / 0.400

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	1	-	1	-	12	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	40	
Out	-	1	-	1	-	12	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	40	

Method of Implementation (Organic): A-kits Archive - Not Installed **Installation Quantity:** 87

Method of Implementation (Organic): B-kits Archive - Not Installed **Installation Quantity:** 64

Footnotes:

- (36) Installs are aligned to the schedule provided by CNAF, to be completed with kits already procured. The kits were originally intended to be installed in FY15 and FY16.
- (37) ILS costs are required for ongoing installs within this OSIP.
- (38) Other Support costs are required for ongoing installs within this OSIP.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	828.374	68.571	91.620	148.268	-	148.268	247.603	219.230	244.512	168.352	72.061	2,088.591
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	828.374	68.571	91.620	148.268	-	148.268	247.603	219.230	244.512	168.352	72.061	2,088.591
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	828.374	68.571	91.620	148.268	-	148.268	247.603	219.230	244.512	168.352	72.061	2,088.591
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F/A-18E/F and EA-18G program has developed and integrated the APG-79 Active Electronically Scanned Array (AESA) radar system for installation in Lot 26 and subsequent Block II, Super Hornet and Growler aircraft. The integration of the APG-79 AESA radar system into the F/A-18E /F and EA-18G greatly improves the weapon system's threat detection range, high resolution synthetic aperture radar ground mapping and targeting capability, aircraft survivability and situational awareness. This Operational, Safety and Improvement Program (OSIP) also includes non-recurring efforts for reliability and operational safety improvements to the APG-65 and APG-73 radars. The Configuration D upgrade includes the following ECPs: General Purpose Processor (GPP)3 (ECP 6381); 5th and 6th Channel (ECP 6344); Waveform Generator (ECP 6346).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Forward fit of the APG-79 AESA radar system began with 8 units in Lot 27, 12 units in Lot 28 and 22 units in Lot 29. Beginning in Lot 30, all F/A-18 E/F and EA-18G aircraft will be delivered with the APG-79 AESA radar. This OSIP includes the retrofit of the APG-79 AESA system into 133 Lot 26-29 F/A-18E/F aircraft originally delivered with APG-73. Obsolescence is included for the APG-79 AESA to address non-recurring activities driven by vanishing suppliers and limited military demand for commercial parts/components. The procurement of kits commenced in FY 2008 with the first installation occurring in FY 2009.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)				
Models of Systems Affected: F/A-18A-F and EA-18G					Modification Type: AVIONICS UPGRADE					Related RDT&E PEs:				
Financial Plan		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Procurement														
<i>Modification Item 1 of 1: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)</i>														
A Kits														
Recurring														
1.1.1) Radome (ECP-6038) - NonOrganic		105 / 32.912	13 / 4.581	- / -	13 / 3.952	- / -	13 / 3.952	- / -	- / -	- / -	- / -	- / -	131 / 41.445	
<i>Subtotal: Recurring</i>		- / 32.912	- / 4.581	- / -	- / 3.952	- / -	- / 3.952	- / -	- / -	- / -	- / -	- / -	- / 41.445	
Non-Recurring														
1.2.1) Installation Kits N/R - Organic		- / 2.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.295	
<i>Subtotal: Non-Recurring</i>		- / 2.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.295	
B Kits														
Recurring														
2.1.1) Retrofit radars (APG-79B) - Organic ⁽³⁹⁾		117 / 327.067	- / -	13 / 39.000	7 / 21.420	- / -	7 / 21.420	- / -	- / -	- / -	- / -	- / -	137 / 387.487	
2.1.2) Modules Kits (WRAs) (ECP-6279) - NonOrganic ⁽⁴⁰⁾		167 / 69.660	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	167 / 69.660	
2.1.3) GPP3 (ECP 6381) - Organic		- / -	12 / 4.800	- / -	59 / 24.072	- / -	59 / 24.072	177 / 73.632	130 / 55.120	129 / 55.857	67 / 30.284	- / -	574 / 243.765	
2.1.4) 5th and 6th Channel (ECP 6344) - NonOrganic		- / -	12 / 4.440	- / -	59 / 22.715	- / -	59 / 22.715	177 / 69.561	130 / 52.130	129 / 52.761	67 / 28.140	- / -	574 / 229.747	
2.1.5) Waveform Generator HW (ECP 6346) - Organic		- / -	12 / 1.560	- / -	59 / 7.847	- / -	59 / 7.847	177 / 23.895	54 / 7.452	25 / 3.476	42 / 6.048	- / -	369 / 50.278	
2.1.6) Waveform Generator FW (ECP 6346) - Organic		- / -	- / -	- / -	- / -	- / -	- / -	95 / 1.140	50 / 0.610	45 / 0.562	15 / 0.180	- / -	205 / 2.492	
2.1.7) APG-65/73 obsolescence - Organic ⁽⁴¹⁾		- / 7.668	- / 6.224	- / 3.581	- / 9.566	- / -	- / 9.566	- / 10.846	- / 13.500	- / 14.073	- / 16.001	- / 11.776	- / 93.235	
2.1.8) APG-79 obsolescence - Organic ⁽⁴²⁾		- / 4.439	- / 3.704	- / 3.427	- / 9.085	- / -	- / 9.085	- / 11.133	- / 13.601	- / 12.263	- / 12.581	- / 9.900	- / 80.133	
2.1.9) H12 (SCS) - Organic		- / 12.772	- / 0.118	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.890	
2.1.10) B-Kits Archive - Organic		115 / 115.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 115.278	
<i>Subtotal: Recurring</i>		- / 536.884	- / 20.846	- / 46.008	- / 94.705	- / -	- / 94.705	- / 190.207	- / 142.413	- / 138.992	- / 93.234	- / 21.676	- / 1,284.965	
Non-Recurring														
2.2.1) Installation Equipment N/R - Organic		- / 169.205	- / 30.641	- / 25.008	- / 25.307	- / -	- / 25.307	- / 26.047	- / 33.395	- / 62.200	- / 25.123	- / -	- / 396.926	
<i>Subtotal: Non-Recurring</i>		- / 169.205	- / 30.641	- / 25.008	- / 25.307	- / -	- / 25.307	- / 26.047	- / 33.395	- / 62.200	- / 25.123	- / -	- / 396.926	
<i>Subtotal: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)</i>		504 / 741.296	49 / 56.068	13 / 71.016	197 / 123.964	- / -	197 / 123.964	626 / 216.254	364 / 175.808	328 / 201.192	191 / 118.357	- / 21.676	2,272 / 1,725.631	
<i>Subtotal: Procurement, All Modification Items</i>		- / 741.296	- / 56.068	- / 71.016	- / 123.964	- / -	- / 123.964	- / 216.254	- / 175.808	- / 201.192	- / 118.357	- / 21.676	- / 1,725.631	
Support (All Modification Items)														
3.1) Engineering Change Orders		- / 34.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.268	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

Models of Systems Affected: F/A-18A-F and EA-18G **Modification Type:** AVIONICS UPGRADE **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.2) Software - Radar Software Corrections ⁽⁴³⁾	- / -	- / -	- / -	- / 15.000	- / -	- / 15.000	- / 18.508	- / 18.172	- / 18.922	- / 12.291	- / 12.537	- / 55.430
3.3) Software - AESA Short Range Improvement S/W Upgrade ⁽⁴⁴⁾	- / -	- / -	- / 10.000	- / 10.000	- / -	- / 10.000	- / 18.008	- / 18.135	- / 12.150	- / 15.393	- / 15.701	- / 79.387
3.4) Data	- / 1.489	- / 0.250	- / 0.250	- / 0.250	- / -	- / 0.250	- / 0.250	- / 0.250	- / 0.250	- / 0.250	- / 0.255	- / 3.494
3.6) Support Equipment ⁽⁴⁵⁾	- / 2.658	- / 15.476	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.134
3.7) ILS	- / 15.448	- / 0.972	- / 2.659	- / 2.706	- / -	- / 2.706	- / 2.755	- / 2.805	- / 2.855	- / 2.907	- / 3.225	- / 26.332
3.8) Other Support	- / 142.552	- / 15.355	- / 15.721	- / 15.823	- / -	- / 15.823	- / 15.928	- / 16.035	- / 16.143	- / 16.254	- / 11.967	- / 95.778
Subtotal: Support	- / 186.415	- / 12.053	- / 18.630	- / 23.779	- / -	- / 23.779	- / 25.449	- / 25.397	- / 30.320	- / 37.095	- / 43.685	- / 302.823
Installation												
Modification Item 1 of 1: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)	- / 0.663	- / 0.450	- / 1.974	- / 0.525	- / -	- / 0.525	- / 15.900	- / 18.025	- / 13.000	- / 12.900	- / 6.700	- / 60.137
Subtotal: Installation	- / 0.663	- / 0.450	- / 1.974	- / 0.525	- / -	- / 0.525	- / 15.900	- / 18.025	- / 13.000	- / 12.900	- / 6.700	- / 60.137
Total												
Total Cost (Procurement + Support + Installation)	828.374	68.571	91.620	148.268	-	148.268	247.603	219.230	244.512	168.352	72.061	2,088.591

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

Modification Item 1 of 1: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

Manufacturer Information

Manufacturer Name: Raytheon - ECP 6344 Manufacturer Location: El Segundo, CA

Administrative Leadtime (in Months): 7 Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2015		Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates	Apr 2016		Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021

Manufacturer Name: Boeing - ECP 6038 Manufacturer Location: St Louis, MO

Administrative Leadtime (in Months): 9 Production Leadtime (in Months): 19

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015		Jun 2017				
Delivery Dates	Jan 2017		Jan 2019				

Manufacturer Name: Raytheon - ECP 6279 Manufacturer Location: El Segundo, CA

Administrative Leadtime (in Months): 6 Production Leadtime (in Months): 18

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: Radome (ECP-6038)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	35 / 0.570	35 / 0.290	31 / 0.571	4 / 0.100	- / 0.000	4 / 0.100	- / -	- / -	- / -	- / -	- / 0.000	105 / 1.531
FY 2015	- / -	- / -	- / -	13 / 0.425	- / -	13 / 0.425	- / -	- / -	- / -	- / -	- / -	13 / 0.425
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.325	- / -	- / -	- / -	13 / 0.325
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	35 / 0.570	35 / 0.290	31 / 0.571	17 / 0.525	- / -	17 / 0.525	- / -	13 / 0.325	- / -	- / -	- / -	131 / 2.281

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

Modification Item 1 of 1: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: Radome (ECP-6038)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	35	10	9	8	8	7	6	9	9	4	3	9	1	-	-	-	-	-	-	3	9	1	-	-	-	-	-	-	-	-	-	-	-	-
Out	35	10	9	8	8	7	6	9	9	4	3	9	1	-	-	-	-	-	-	3	9	1	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: Navy Field Modification Team:: Installation Name: Modules Kits (WRAs) (ECP-6279)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	81 / 0.093	38 / 0.160	48 / 0.203	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	167 / 0.456
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	81 / 0.093	38 / 0.160	48 / 0.203	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	167 / 0.456

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	81	7	8	8	15	16	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	81	7	8	8	15	16	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: FRC:: Installation Name: 5th and 6th Channel (ECP 6344)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

Modification Item 1 of 1: AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

Installation Information

Method of Implementation: FRC:: Installation Name: 5th and 6th Channel (ECP 6344)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	12 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.200
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	59 / 5.900	- / -	- / -	- / -	- / -	59 / 5.900
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	177 / 17.700	- / -	- / -	- / -	177 / 17.700
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	130 / 13.000	- / -	- / -	130 / 13.000
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	129 / 12.900	- / -	129 / 12.900
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 6.700	67 / 6.700
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	12 / 1.200	- / -	- / -	- / -	59 / 5.900	177 / 17.700	130 / 13.000	129 / 12.900	67 / 6.700	574 / 57.400

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	6	6	-	-	-	-	14	15	15	15	44	44	44	45	32	32	33	33	32	32	32	33	67	574
Out	-	-	-	-	-	-	6	6	-	-	-	-	14	15	15	15	44	44	44	45	32	32	33	33	32	32	32	33	67	574

Method of Implementation (Organic): Retrofit radars (APG-79B) **Installation Quantity:** 137

Method of Implementation (Organic): GPP3 (ECP 6381) **Installation Quantity:** 574

Method of Implementation (Organic): Waveform Generator HW (ECP 6346) **Installation Quantity:** 369

Method of Implementation (Organic): Waveform Generator FW (ECP 6346) **Installation Quantity:** 205

Method of Implementation (Organic): B-Kits Archive - Not Installed **Installation Quantity:** 115

Footnotes:

⁽³⁹⁾ Radars are O-level installs and have no related install cost/schedule.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 12 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

⁽⁴⁰⁾ ECP 6279 installs are dependent upon squadron availability and Commander, Naval Air Forces Master Air Plan.

⁽⁴¹⁾ Costs for obsolescence kits vary because obsolescence issues are not an ongoing effort for a single item and are not subject to inflation driven increases. The requirement for obsolescence kits was determined by evaluating historic life of type buy costs for analogous systems. These costs were projected to support future obsolescence issues in the affected components. Obsolescence efforts have been underfunded for the past, causing the program to reallocate current-year budget to cover emergent obsolescence mitigation efforts per Resource Sponsor direction. The increases from year to year are necessary to recover from several years of shortfalls.

⁽⁴²⁾ Costs for obsolescence kits vary because obsolescence issues are not an ongoing effort for a single item and are not subject to inflation driven increases. The requirement for obsolescence kits was determined by evaluating historic life of type buy costs for analogous systems. These costs were projected to support future obsolescence issues in the affected components. Obsolescence efforts have been underfunded for the past few years, causing the program to reallocate current-year budget to cover emergent obsolescence mitigation efforts per Resource Sponsor direction. The increases from year to year are necessary to recover from several years of shortfalls.

⁽⁴³⁾ There are no quantities associated with software modifications.

⁽⁴⁴⁾ There are no quantities associated with software modifications.

⁽⁴⁵⁾ FY15 funding is for depot stand up for ECP 6344.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 13 / EW Unique (OSIP 021-08)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	192.113	38.173	1.188	0.484	-	0.484	-	-	-	-	-	231.958
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	192.113	38.173	1.188	0.484	-	0.484	-	-	-	-	-	231.958
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	192.113	38.173	1.188	0.484	-	0.484	-	-	-	-	-	231.958

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Purchase additional ALR-67(V)3 Radar Warning Receiver (RWR) systems to be used to retrofit F/A-18C/D/E/F platforms. These systems will replace existing ALR-67(V)2 systems. This will significantly increase aircrew survivability in the legacy F/A-18. The repetitive obsolescence issues of the V(2) system is a consistent issue in the F/A-18 community. The RWR ALR-67(V)3 is the threat recognition providing situational awareness for the aircrew and is vital to their own safety as well as providing the opportunity to support the ground troops. This retrofit reduces the risk of lost aircraft and aircrew in a hostile environment, improves close air support, and reduces the risk of blue on blue fratricide. The Operational, Safety and Improvement Program (OSIP) also performs required safety of flight modifications (ECP 622, ECP AV064, ECP AV081), addresses obsolescence issues, sustainment, and incorporates system improvements for all electronic warfare unique requirements to include software modifications. ALQ-214(V)4/5 kit procurement is required for integration testing to determine ALR-67(V)3 and ALQ-214(V)5 compatibility.

FY15 Congressional Add funding was received for ALR-67(v)3 kits and installs. This funding will also be used for FY16 and FY17 support of the FY15 Congressional kit procurements and installs.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: V(3) Development and integration efforts started in FY10 and delivery and installs of A-kits began in FY14 and will continue through FY17.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 13 / EW Unique (OSIP 021-08)			
Models of Systems Affected: F/A-18C/D/E/F ALR-67(V)3 Retrofit				Modification Type: Capability Improvements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: EW Unique (OSIP 021-08)</i>													
A Kits													
Recurring													
1.1.1) ALR-67(V)3 USMC Cong Add - NonOrganic ⁽⁴⁶⁾	- / -	30 / 0.990	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.990	
1.1.2) OCO ALR 67(V)3 - NonOrganic	100 / 4.123	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 4.123	
1.1.3) A-Kits Archive - Organic	5 / 0.863	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.863	
<i>Subtotal: Recurring</i>	<i>- / 4.986</i>	<i>- / 0.990</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 5.976</i>	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 2.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.078	
<i>Subtotal: Non-Recurring</i>	<i>- / 2.078</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 2.078</i>	
B Kits													
Recurring													
2.1.1) F/A-18 C/D ALR-67(V)3 Retrofit USMC - Organic ⁽⁴⁷⁾	20 / 24.267	10 / 11.846	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 36.113	
2.1.2) B-Kits Archive - Organic	491 / 127.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	491 / 127.295	
<i>Subtotal: Recurring</i>	<i>- / 151.562</i>	<i>- / 11.846</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 163.408</i>	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 12.190	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.190	
<i>Subtotal: Non-Recurring</i>	<i>- / 12.190</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 12.190</i>	
<i>Subtotal: EW Unique (OSIP 021-08)</i>	<i>616 / 170.816</i>	<i>40 / 12.836</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>656 / 183.652</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 170.816</i>	<i>- / 12.836</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 183.652</i>	
Support (All Modification Items)													
3.2) Software - ALR-67(V)3 system S/W upgrade	- / 13.782	- / 7.423	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.205	
3.3) Data	- / 0.795	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.795	
3.4) Training Equipment	- / 0.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.276	
3.5) Support Equipment	- / 5.746	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.746	
3.6) ILS ⁽⁴⁸⁾	- / 0.121	- / 8.359	- / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.484	
3.7) Other Support ⁽⁴⁹⁾	- / 0.347	- / 8.397	- / 0.011	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.755	
<i>Subtotal: Support</i>	<i>- / 21.067</i>	<i>- / 24.179</i>	<i>- / 0.015</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 45.261</i>	
Installation													
<i>Modification Item 1 of 1: EW Unique (OSIP 021-08)</i>	<i>- / 0.230</i>	<i>- / 1.158</i>	<i>- / 1.173</i>	<i>- / 0.484</i>	<i>- / -</i>	<i>- / 0.484</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 3.045</i>	

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 13 / EW Unique (OSIP 021-08)
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Models of Systems Affected: F/A-18C/D/E/F ALR-67(V)3 Retrofit	Modification Type: Capability Improvements	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Installation</i>	- / 0.230	- / 1.158	- / 1.173	- / 0.484	- / -	- / 0.484	- / -	- / -	- / -	- / -	- / -	- / 3.045
Total												
Total Cost (Procurement + Support + Installation)	192.113	38.173	1.188	0.484	-	0.484	-	-	-	-	-	231.958

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 13 / EW Unique (OSIP 021-08)
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Modification Item 1 of 1: EW Unique (OSIP 021-08)

Manufacturer Information

Manufacturer Name: Raytheon - ALR-67(V)3 OCO	Manufacturer Location: Forrest, MS
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 18

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: Raytheon - ALR-67(V)3 USMC Cong Add	Manufacturer Location: Forrest, MS
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 18

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015						
Delivery Dates	Sep 2016						

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ALR-67(V)3 USMC Cong Add

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / 0.750	- / -	30 / -	- / -	30 / -	- / -	- / -	- / -	- / -	- / -	30 / 0.750
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / 0.750	- / -	30 / -	- / -	30 / -	- / -	- / -	- / -	- / -	- / -	30 / 0.750

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	7	7	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
Out	-	-	-	-	-	-	-	-	7	7	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 13 / EW Unique (OSIP 021-08)

Modification Item 1 of 1: EW Unique (OSIP 021-08)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: OCO ALR 67(V)3

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	9 / 0.230	16 / 0.408	48 / 1.173	27 / 0.484	- / 0.000	27 / 0.484	- / -	- / -	- / -	- / -	- / 0.000	100 / 2.295
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	9 / 0.230	16 / 0.408	48 / 1.173	27 / 0.484	- / -	27 / 0.484	- / -	- / -	- / -	- / -	- / -	100 / 2.295

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	9	4	4	4	4	12	12	12	12	14	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
Out	9	4	4	4	4	12	12	12	12	14	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100

Method of Implementation (Organic): A-Kits Archive **Installation Quantity:** 5

Method of Implementation (Organic): F/A-18 C/D ALR-67(V)3 Retrofit USMC **Installation Quantity:** 30

Method of Implementation (Organic): B-Kits Archive **Installation Quantity:** 491

Footnotes:

- (46) FY15 Congressional Add received for USMC Improvements to procure a quantity of 30 ALR-67(V)3 A-kits. Kits are installed in FY17 using FY15 Congressional Add funding.
- (47) FY15 Congressional Add received for USMC Improvements to procure a quantity of 10 ALR-67(V)3 B-kits. FY14 baseline funding was used to procure 20 ALR-67(V)3 B-kits, for a total quantity of 30 B-kits.
- (48) FY15 ILS increase due to USMC Cong Add to support ALR-67(V)3 kit procurements.
- (49) FY15 Other Support increase due to USMC Cong Add to support ALR-67(V)3 kit procurements.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	158.899	36.439	25.783	23.139	-	23.139	40.773	24.369	26.136	26.514	95.184	457.236
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	158.899	36.439	25.783	23.139	-	23.139	40.773	24.369	26.136	26.514	95.184	457.236
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	158.899	36.439	25.783	23.139	-	23.139	40.773	24.369	26.136	26.514	95.184	457.236
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Operational, Safety and Improvement Program (OSIP) 001-10 will implement a common configuration and capability across all F/A-18A-F and EA-18G aircraft. Improving platform performance in all mission areas including Surface Warfare (SuW), air-to-air, strike, Suppression of Enemy Air Defenses (SEAD)/Defensive Electronic Counter Measurements (DECD) and interoperability which will result in a reduction of a number of aircraft and weapons to execute SuW and strike missions in most stressing scenarios, decrease in time on target to execute SuW, SEAD/DECD missions in major combat operations scenarios and will improve survivability due to decreased time on target.

The F/A-18 program has developed and integrated multiple systems to be installed in Lot 26 and subsequent block 2 aircraft. The integration of the systems: Distributed Targeting System (DTS), Distributed Targeting Processor - Network (DTP-N), Data Transfer Unit (DTU), Digital Memory Device (DMD), Advanced Navigation (ANAV), Upgraded Solid State Recorder (USSR), digital cueing systems and G4 processor, and interoperability modifications due to multifunctional information distribution system low volume terminal and digital communication system radio military-standard will greatly improve the weapon systems threat capability. This OSIP will implement the required architecture in support of Navigation Plan 2030. The ANAV retrofit implements an advanced inertial navigation system/global positioning system that increases platform navigation accuracy and smart weapon targeting solutions.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

DMD, ANAV, and digital countermeasure receiver are fully developed and delivered with Lot 30 and above in FY 2008. DTS achieved IOC in Oct 2013.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)			
Models of Systems Affected: F/A-18A-F and EA-18G					Modification Type: Avionics Upgrade					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)</i>													
A Kits													
Recurring													
1.1.1) USSR A-Kit - NonOrganic	175 / 7.441	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	175 / 7.441	
1.1.2) DTS A1 KITS (LOTS 26-29) - NonOrganic ⁽⁵⁰⁾	76 / 2.689	44 / 2.095	50 / 2.381	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 7.165	
1.1.3) DMD A Kit (LOTS 26-29) - NonOrganic	55 / 3.610	20 / 1.678	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 5.288	
1.1.4) DMD Replacement kits - NonOrganic	- / -	38 / 0.262	53 / 0.371	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	91 / 0.633	
1.1.5) A-Kits Archive - Organic	446 / 2.103	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	446 / 2.103	
Subtotal: Recurring	- / 15.843	- / 4.035	- / 2.752	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.630	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 13.027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.027	
Subtotal: Non-Recurring	- / 13.027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.027	
B Kits													
Recurring													
2.1.1) ANAV kit with WRA - NonOrganic	118 / 11.293	36 / 3.575	12 / 1.159	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	166 / 16.027	
2.1.2) DTS B kits (lots 26 and above) - Organic	244 / 61.003	18 / 7.432	27 / 7.020	44 / 10.648	- / -	44 / 10.648	78 / 18.174	7 / 1.660	- / -	- / -	- / -	418 / 105.937	
2.1.3) DTP-N B-kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 6.964	12 / 8.357	114 / 71.110	136 / 86.431	
2.1.4) DTU Kits - Organic	- / -	104 / 6.175	- / -	- / -	- / -	- / -	90 / 5.400	95 / 5.716	88 / 5.390	95 / 5.923	190 / 12.027	662 / 40.631	
2.1.5) DTU Ground Encryptor - Organic	- / -	47 / 2.285	- / -	- / -	- / -	- / -	94 / 4.606	96 / 4.789	98 / 4.976	86 / 4.446	97 / 5.014	518 / 26.116	
2.1.6) DTU Memory Modules - Organic ⁽⁵¹⁾	- / -	587 / 1.200	- / -	- / -	- / -	- / -	558 / 1.060	554 / 1.072	484 / 0.953	571 / 1.145	262 / 0.525	3,016 / 5.955	
2.1.7) DTU AME Cables - Organic	- / -	46 / 0.070	- / -	- / -	- / -	- / -	88 / 0.114	74 / 0.098	81 / 0.109	47 / 0.064	- / -	336 / 0.455	
2.1.8) B-Kits Archive - Organic	660 / 28.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	660 / 28.388	
Subtotal: Recurring	- / 100.684	- / 20.737	- / 8.179	- / 10.648	- / -	- / 10.648	- / 29.354	- / 13.335	- / 18.392	- / 19.935	- / 88.676	- / 309.940	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽⁵²⁾	- / 3.313	- / 0.258	- / -	- / -	- / -	- / -	- / 1.935	- / 4.303	- / 1.337	- / 1.323	- / 2.548	- / 15.017	
Subtotal: Non-Recurring	- / 3.313	- / 0.258	- / -	- / -	- / -	- / -	- / 1.935	- / 4.303	- / 1.337	- / 1.323	- / 2.548	- / 15.017	
Subtotal: Network Centric Operations: (OSIP 001-10)	1,774 / 132.867	940 / 25.030	142 / 10.931	44 / 10.648	- / -	44 / 10.648	908 / 31.289	826 / 17.638	761 / 19.729	811 / 21.258	663 / 91.224	6,869 / 360.614	
Subtotal: Procurement, All Modification Items	- / 132.867	- / 25.030	- / 10.931	- / 10.648	- / -	- / 10.648	- / 31.289	- / 17.638	- / 19.729	- / 21.258	- / 91.224	- / 360.614	
Support (All Modification Items)													
3.2) Data	- / 2.712	- / -	- / 0.203	- / -	- / -	- / -	- / 0.165	- / -	- / -	- / -	- / -	- / 3.080	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)

Models of Systems Affected: F/A-18A-F and EA-18G **Modification Type:** Avionics Upgrade **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.3) Training Equipment	- / -	- / -	- / -	- / 10.721	- / -	- / 10.721	- / -	- / -	- / -	- / -	- / -	- / 10.721
3.4) Support Equipment	- / 6.516	- / 12.118	- / 12.025	- / 10.582	- / -	- / 10.582	- / 10.388	- / -	- / 0.319	- / 0.314	- / 0.324	- / 12.586
3.5) ILS	- / 6.439	- / 1.996	- / 12.807	- / 12.807	- / -	- / 12.807	- / 3.845	- / 4.018	- / 3.974	- / 3.782	- / 1.445	- / 31.113
3.6) Other Support	- / 9.717	- / 12.018	- / 12.843	- / 12.725	- / -	- / 12.725	- / 2.700	- / 2.713	- / 2.114	- / 1.160	- / 2.191	- / 28.181
Subtotal: Support	- / 25.384	- / 6.132	- / 7.878	- / 6.835	- / -	- / 6.835	- / 7.098	- / 6.731	- / 6.407	- / 5.256	- / 3.960	- / 75.681
Installation												
Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)	- / 0.648	- / 5.277	- / 6.974	- / 5.656	- / -	- / 5.656	- / 2.386	- / -	- / -	- / -	- / -	- / 20.941
Subtotal: Installation	- / 0.648	- / 5.277	- / 6.974	- / 5.656	- / -	- / 5.656	- / 2.386	- / -	- / -	- / -	- / -	- / 20.941
Total												
Total Cost (Procurement + Support + Installation)	158.899	36.439	25.783	23.139	-	23.139	40.773	24.369	26.136	26.514	95.184	457.236

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy						Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0525 / F-18 Series			Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)	
Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)							
Manufacturer Information							
Manufacturer Name: Boeing - USSR				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 30			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Boeing - DTS A1				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 18			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016					
Delivery Dates	Jul 2016	Jul 2017					
Manufacturer Name: Boeing - DMD				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 13			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015						
Delivery Dates	Apr 2016						
Manufacturer Name: Boeing - ANAV				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Mar 2016					
Delivery Dates	Mar 2017	Mar 2018					
Manufacturer Name: Boeing - DMD Replacement				Manufacturer Location: St Louis, MO			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 15			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016					
Delivery Dates	Jun 2016	Jun 2017					

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)

Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: USSR A-Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	76 / 0.625	52 / 0.567	30 / 0.333	17 / 0.192	- / 0.000	17 / 0.192	- / -	- / -	- / -	- / -	- / 0.000	175 / 1.717
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	76 / 0.625	52 / 0.567	30 / 0.333	17 / 0.192	- / -	17 / 0.192	- / -	- / -	- / -	- / -	- / -	175 / 1.717

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	76	26	26	-	-	8	8	7	7	4	4	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	175
Out	76	26	26	-	-	8	8	7	7	4	4	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	175

Method of Implementation: Navy Field Modification Team:: Installation Name: DTS A1 KITS (LOTS 26-29)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	37 / 2.030	39 / 2.442	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	76 / 4.472
FY 2015	- / -	- / -	16 / 1.002	28 / 1.785	- / -	28 / 1.785	- / -	- / -	- / -	- / -	- / -	44 / 2.787
FY 2016	- / -	- / -	- / -	17 / 1.084	- / -	17 / 1.084	33 / 2.110	- / -	- / -	- / -	- / -	50 / 3.194
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	37 / 2.030	55 / 3.444	45 / 2.869	- / -	45 / 2.869	33 / 2.110	- / -	- / -	- / -	- / -	170 / 10.453

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)

Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: DTS A1 KITS (LOTS 26-29)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	9	9	9	10	-	10	29	16	10	9	9	17	11	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170
Out	-	9	9	9	10	-	10	29	16	10	9	9	17	11	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170

Method of Implementation: Navy Field Modification Team:: Installation Name: DMD A Kit (LOTS 26-29)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	55 / 1.581	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	55 / 1.581
FY 2015	- / -	- / -	20 / 0.585	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.585
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	55 / 1.581	20 / 0.585	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 2.166

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	17	18	10	10	-	-	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75
Out	-	17	18	10	10	-	-	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75

Method of Implementation: Navy Field Modification Team:: Installation Name: DMD Replacement kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)

Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: DMD Replacement kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	38 / 1.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 1.112
FY 2016	- / -	- / -	- / -	53 / 1.698	- / -	53 / 1.698	- / -	- / -	- / -	- / -	- / -	53 / 1.698
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	38 / 1.112	53 / 1.698	- / -	53 / 1.698	- / -	- / -	- / -	- / -	- / -	91 / 2.810

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	19	19	-	-	26	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91
Out	-	-	-	-	-	-	19	19	-	-	26	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91

Method of Implementation: Navy Field Modification Team:: Installation Name: ANAV kit with WRA

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.023	48 / 1.099	65 / 1.500	3 / 0.069	- / 0.000	3 / 0.069	- / -	- / -	- / -	- / -	- / 0.000	118 / 2.691
FY 2015	- / -	- / -	- / -	36 / 0.828	- / -	36 / 0.828	- / -	- / -	- / -	- / -	- / -	36 / 0.828
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.276	- / -	- / -	- / -	- / -	12 / 0.276
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.023	48 / 1.099	65 / 1.500	39 / 0.897	- / -	39 / 0.897	12 / 0.276	- / -	- / -	- / -	- / -	166 / 3.795

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 14 / Network Centric Operations: (OSIP 001-10)

Modification Item 1 of 1: Network Centric Operations: (OSIP 001-10)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ANAV kit with WRA

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	2	12	12	12	12	16	16	16	17	3	12	12	12	-	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	166
Out	2	12	12	12	12	16	16	16	17	3	12	12	12	-	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	166

Method of Implementation (Organic): A-Kits Archive - Not Installed	Installation Quantity: 446
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Method of Implementation (Organic): DTS B kits (lots 26 and above)	Installation Quantity: 418
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Method of Implementation (Organic): DTP-N B-kits	Installation Quantity: 136
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Method of Implementation (Organic): DTU Kits - Not Installed	Installation Quantity: 662
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Method of Implementation (Organic): DTU Ground Encryptor - Not Installed	Installation Quantity: 518
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Method of Implementation (Organic): DTU Memory Modules - Not Installed	Installation Quantity: 3016
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Method of Implementation (Organic): DTU AME Cables - Not Installed	Installation Quantity: 336
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Method of Implementation (Organic): B-Kits Archive - Not Installed	Installation Quantity: 660
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Footnotes:
⁽⁵⁰⁾ DTS Kit installs were delayed due to non-availability of fleet aircraft.
⁽⁵¹⁾ DTU Memory Modules are procured with a quantity of 5 per aircraft.
⁽⁵²⁾ Increase in FY18 is due to NRE efforts for Distributed Targeting Processor-Network (DTP-N). Increase in FY19 is due to NRE efforts for Distributed Targeting System (DTS).

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	70.600	19.049	10.760	22.632	-	22.632	37.590	85.061	46.423	58.973	120.818	471.906
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	70.600	19.049	10.760	22.632	-	22.632	37.590	85.061	46.423	58.973	120.818	471.906
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	70.600	19.049	10.760	22.632	-	22.632	37.590	85.061	46.423	58.973	120.818	471.906
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

With EA-18G aircraft achieving initial operational capability in FY2009, an Operational, Safety and Improvement Program (OSIP) to perform required safety of flight modifications, address obsolescence issues, and incorporate system improvements was established. Funds are required to retrofit Weapons Replaceable Assemblies (WRAs) and Shop Replaceable Assemblies (SRAs) and achieve depot standup SRA/WRA capability. Funding will support the retrofit of the ALQ-99 tactical jamming system. The Joint Tactical Terminal Receiver (JTTR) has been developed to replace the Multi-Mission Advanced Tactical Terminal (MATT) to address MATT obsolescence and capability deficiencies. OSIP funding will be used to retrofit the aircraft with JTTR at the completion of the development program. Funding will also support maintenance of a common configuration and airborne electronic attack I-level standup. This OSIP also supports the procurement and fielding of operational test program sets as support equipment for I-level maintenance stand up. OSIP funding will be used to retrofit ALQ-218 hardware and software on board the EA-18G for increased emitter detection. ECP 6312 (EA-18G AESA Blanking Wire Group and CCS Mid-board Group A) supports Counter Communications Set (CCS)/ AESA Blanking capabilities during future jamming operations for EA-18G. This ECP adds CCS provisional wiring with the intent that it could be used to mate a CCS generated Radio Frequency (RF) signal to pods carried on stations 3 - 9 in addition to having blanking wires to coordinate better between the CCS and ALQ99. In addition to the CCS provisional wiring, ECP-6312 includes a blanking wire from the AESA/Electronic Interface Blanking Unit (EIBU) to the ALQ-218 onboard the EA-18G.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

JTTR non-recurring engineering in FY08-13. Aircraft production A-kit buys in FY10-13 [58 aircraft (A/C)] with installs in FY11-14 (58 A/C) using Aircraft Procurement, Navy-1. Retrofit A-kit buys in FY13-15 (54 a/c) with installations in FY15-17. Retrofit B-kit procurements in FY13-FY15 with O-level installs beginning in FY16 in alignment with H-10 fleet release. Received funds in FY17 for EA-18G ALQ-218 HW/SW Upgrades which continue through the FYDP.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)			
Models of Systems Affected: EA-18G				Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> EA-18G Unique OSIP (011-10)													
A Kits													
Recurring													
1.1.1) IBS Receiver Replacement - NonOrganic	36 / 2.496	18 / 1.296	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 3.792	
1.1.2) ECP 6312 EA-18G AESA Blanking Wire Group A and CCS Mid-board Group A - NonOrganic ⁽⁵³⁾	- / -	3 / 0.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.430	
<i>Subtotal: Recurring</i>	- / 2.496	- / 1.726	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.222	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 1.251	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.451	
<i>Subtotal: Non-Recurring</i>	- / 1.251	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.451	
B Kits													
Recurring													
2.1.1) IBS Receiver Replacement (JTTR) - Organic ⁽⁵⁴⁾	148 / 10.410	15 / 0.923	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	163 / 11.333	
2.1.2) H10 SCS - Organic	- / 11.658	- / 0.180	- / 0.043	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.881	
2.1.3) EA-18G Hardback (ALQ-99) - Organic	31 / 6.701	39 / 8.362	22 / 4.674	5 / 1.077	- / -	5 / 1.077	- / -	- / -	- / -	- / -	- / -	97 / 20.814	
2.1.4) ALQ-218 Modifications - Organic ⁽⁵⁵⁾	- / -	- / -	- / -	17 / 14.387	- / -	17 / 14.387	16 / 19.600	47 / 56.237	14 / 17.744	16 / 20.644	50 / 76.183	160 / 204.795	
2.1.5) EA-18G SCS - Organic ⁽⁵⁶⁾	- / -	- / 2.067	- / 0.765	- / 1.504	- / -	- / 1.504	- / 2.856	- / 16.199	- / 18.110	- / 27.697	- / 35.000	- / 104.198	
2.1.6) B-Kits Archive - Organic	46 / 29.719	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 29.719	
<i>Subtotal: Recurring</i>	- / 58.488	- / 11.532	- / 5.482	- / 16.968	- / -	- / 16.968	- / 22.456	- / 72.436	- / 35.854	- / 48.341	- / 111.183	- / 382.740	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 4.120	- / 2.237	- / 0.331	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.688	
<i>Subtotal: Non-Recurring</i>	- / 4.120	- / 2.237	- / 0.331	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.688	
<i>Subtotal: EA-18G Unique OSIP (011-10)</i>	261 / 66.355	75 / 15.695	22 / 5.813	22 / 16.968	- / -	22 / 16.968	16 / 22.456	47 / 72.436	14 / 35.854	16 / 48.341	50 / 111.183	523 / 395.101	
<i>Subtotal: Procurement, All Modification Items</i>	- / 66.355	- / 15.695	- / 5.813	- / 16.968	- / -	- / 16.968	- / 22.456	- / 72.436	- / 35.854	- / 48.341	- / 111.183	- / 395.101	
Support (All Modification Items)													
3.2) Data	- / 0.860	- / 0.848	- / 0.761	- / 0.880	- / -	- / 0.880	- / 0.647	- / 0.477	- / 0.500	- / 0.520	- / 0.525	- / 6.018	
3.3) Training Equipment	- / -	- / -	- / -	- / 0.172	- / -	- / 0.172	- / 0.750	- / -	- / -	- / -	- / -	- / 0.922	
3.4) Support Equipment ⁽⁵⁷⁾	- / 0.681	- / -	- / -	- / -	- / -	- / -	- / 9.961	- / 8.777	- / 6.648	- / 6.648	- / 5.550	- / 38.265	
3.5) ILS	- / 0.920	- / 0.590	- / 0.600	- / 0.610	- / -	- / 0.610	- / 0.621	- / 1.000	- / 1.011	- / 1.020	- / 1.030	- / 7.402	
3.6) Other Support ⁽⁵⁸⁾	- / 1.784	- / 1.753	- / 1.782	- / 2.116	- / -	- / 2.116	- / 2.335	- / 2.371	- / 2.410	- / 2.444	- / 2.530	- / 19.525	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)			
Models of Systems Affected: EA-18G				Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Support</i>	- /4.245	- /3.191	- /3.143	- /3.778	- / -	- /3.778	- /14.314	- /12.625	- /10.569	- /10.632	- /9.635	- /72.132	
Installation													
<i>Modification Item 1 of 1: EA-18G Unique OSIP (011-10)</i>	- /0.000	- /0.163	- /1.804	- /1.886	- / -	- /1.886	- /0.820	- / -	- / -	- / -	- / -	- /4.673	
<i>Subtotal: Installation</i>	- /0.000	- /0.163	- /1.804	- /1.886	- / -	- /1.886	- /0.820	- / -	- / -	- / -	- / -	- /4.673	
Total													
Total Cost (Procurement + Support + Installation)	70.600	19.049	10.760	22.632	-	22.632	37.590	85.061	46.423	58.973	120.818	471.906	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)

Modification Item 1 of 1: EA-18G Unique OSIP (011-10)

Manufacturer Information

Manufacturer Name: DRS - IBS Receiver	Manufacturer Location: Johnstown, PA
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 24

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015						
Delivery Dates	Jan 2017						

Manufacturer Name: Boeing - ECP 6312	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 12	Production Leadtime (in Months): 24

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2015						
Delivery Dates	Oct 2017						

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: IBS Receiver Replacement

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	2 / 0.163	22 / 1.804	12 / 0.984	- / 0.000	12 / 0.984	- / -	- / -	- / -	- / -	- / 0.000	36 / 2.951
FY 2015	- / -	- / -	- / -	11 / 0.902	- / -	11 / 0.902	7 / 0.656	- / -	- / -	- / -	- / -	18 / 1.558
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	2 / 0.163	22 / 1.804	23 / 1.886	- / -	23 / 1.886	7 / 0.656	- / -	- / -	- / -	- / -	54 / 4.509

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	2	6	6	5	5	6	6	5	6	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
Out	-	-	-	-	2	6	6	5	5	6	6	5	6	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	54	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)

Modification Item 1 of 1: EA-18G Unique OSIP (011-10)

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP 6312 EA-18G AESA Blanking Wire Group A and CCS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.164	- / -	- / -	- / -	- / -	3 / 0.164
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.164	- / -	- / -	- / -	- / -	3 / 0.164

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Out	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3

Method of Implementation (Organic): IBS Receiver Replacement (JTTR) **Installation Quantity:** 163

Method of Implementation (Organic): EA-18G Hardback (ALQ-99) **Installation Quantity:** 97

Method of Implementation (Organic): ALQ-218 Modifications - Not Installed **Installation Quantity:** 160

Method of Implementation (Organic): B-Kits Archive - Not Installed **Installation Quantity:** 46

Footnotes:

⁽⁵³⁾ ECP 6312 was a prior year production cut in ECP for new EA-18G aircraft, however G1, G3, & G4 did not get the A-kit. It has now been determined that these three aircraft will require this ECP in order to support future jamming requirements on the EA-18G.

⁽⁵⁴⁾ Total quantity of 163 IBS Receiver Replacement (JTTR) kits includes PoR additions as well as lab assets, which are used for software testing of modifications/upgrades.

⁽⁵⁵⁾ Quantity of 160 ALQ-218 kits includes additional EA-18G aircraft that will be delivered in FY15 - FY18.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 15 / EA-18G Unique OSIP (011-10)
<p>⁽⁵⁶⁾ Increase in future software H builds to support future jammer modifications onto EA-18G.</p> <p>⁽⁵⁷⁾ Funding increases in FY18 due to procurement of EA-18G depot support equipment.</p> <p>⁽⁵⁸⁾ Other Support costs increase in FY17 due to additional support for ALQ-218 modifications. Funding for integration and production support activities was realigned from non-recurring engineering (CE 2.2.1) to other support in FY17 - FY21.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 16 / Power and Propulsion (11-13)
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5.133	36.703	10.316	34.524	-	34.524	49.207	68.932	60.506	67.739	29.300	362.360
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5.133	36.703	10.316	34.524	-	34.524	49.207	68.932	60.506	67.739	29.300	362.360
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5.133	36.703	10.316	34.524	-	34.524	49.207	68.932	60.506	67.739	29.300	362.360

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This OSIP incorporates safety and life-limiting propulsion and power corrective actions to resolve safety and readiness concerns. Corrections to design deficiencies found during post production test and evaluation and discovered during fleet operations that have resulted in safety and reliability degradation must be corrected. The requirement to upgrade or modify the engine, system secondary power system, electrical system, and fuel systems is critical in maintaining sustainable fleet reliability, safety, and performance and is necessary to meet mission requirements. Modifications include Generator Convertor Units (GCUs), GCU Peculiar Support Equipment (PSE), electrical power and secondary power systems for service life extension.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

F/A 18 EFG GCU reliability upgrade (ECP 6421) Non-recurring Engineering (NRE) is being performed using Aircraft Procurement, Navy-1 funding, and will be complete in FY15. NRE for retrofits began in FY13. Kit deliveries are scheduled to begin in FY16.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 16 / Power and Propulsion (11-13)			
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: Safety, Readiness, Reliability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Power and Propulsion (11-13)</i>													
B Kits													
Recurring													
2.1.1) GCU Reliability Upgrade midterm (ECP 6421) Pt 3 G3/G4 - Organic	- / -	194 / 33.950	46 / 8.000	184 / 32.200	- / -	184 / 32.200	204 / 35.700	309 / 54.075	63 / 11.025	- / -	- / -	1,000 / 174.950	
2.1.2) Archived ECPs - Organic	- / 1.888	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.888	
2.1.3) GCU Reliability Upgrade midterm Pt 3 (ECP 6421) G4 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	43 / 11.395	48 / 12.720	177 / 46.905	246 / 65.190	86 / 22.790	600 / 159.000	
<i>Subtotal: Recurring</i>	<i>- / 1.888</i>	<i>- / 33.950</i>	<i>- / 8.000</i>	<i>- / 32.200</i>	<i>- / -</i>	<i>- / 32.200</i>	<i>- / 47.095</i>	<i>- / 66.795</i>	<i>- / 57.930</i>	<i>- / 65.190</i>	<i>- / 22.790</i>	<i>- / 335.838</i>	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 0.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.278	
<i>Subtotal: Non-Recurring</i>	<i>- / 0.278</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.278</i>	
<i>Subtotal: Power and Propulsion (11-13)</i>	<i>- / 2.166</i>	<i>194 / 33.950</i>	<i>46 / 8.000</i>	<i>184 / 32.200</i>	<i>- / -</i>	<i>184 / 32.200</i>	<i>247 / 47.095</i>	<i>357 / 66.795</i>	<i>240 / 57.930</i>	<i>246 / 65.190</i>	<i>86 / 22.790</i>	<i>1,600 / 336.116</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 2.166</i>	<i>- / 33.950</i>	<i>- / 8.000</i>	<i>- / 32.200</i>	<i>- / -</i>	<i>- / 32.200</i>	<i>- / 47.095</i>	<i>- / 66.795</i>	<i>- / 57.930</i>	<i>- / 65.190</i>	<i>- / 22.790</i>	<i>- / 336.116</i>	
Support (All Modification Items)													
3.2) Data	- / 0.002	- / -	- / 0.181	- / -	- / -	- / -	- / -	- / 0.043	- / 0.083	- / -	- / -	- / 0.309	
3.3) Training Equipment	- / 0.039	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.379	- / -	- / 0.418	
3.4) Support Equipment	- / 1.815	- / 1.195	- / 0.150	- / 0.303	- / -	- / 0.303	- / 0.056	- / -	- / 0.362	- / -	- / -	- / 3.881	
3.5) ILS	- / 0.113	- / 0.022	- / 0.421	- / 0.429	- / -	- / 0.429	- / 0.436	- / 0.444	- / 0.452	- / 0.460	- / 1.381	- / 4.158	
3.6) Other Support	- / 0.998	- / 1.536	- / 1.564	- / 1.592	- / -	- / 1.592	- / 1.620	- / 1.650	- / 1.679	- / 1.710	- / 5.129	- / 17.478	
<i>Subtotal: Support</i>	<i>- / 2.967</i>	<i>- / 2.753</i>	<i>- / 2.316</i>	<i>- / 2.324</i>	<i>- / -</i>	<i>- / 2.324</i>	<i>- / 2.112</i>	<i>- / 2.137</i>	<i>- / 2.576</i>	<i>- / 2.549</i>	<i>- / 6.510</i>	<i>- / 26.244</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	5.133	36.703	10.316	34.524	-	34.524	49.207	68.932	60.506	67.739	29.300	362.360	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 16 / Power and Propulsion (11-13)
<i>Modification Item 1 of 1:</i> Power and Propulsion (11-13)		
Installation Information		
Method of Implementation (Organic): GCU Reliability Upgrade midterm (ECP 6421) Pt 3 G3/G4 - Not Installed		Installation Quantity: 1000
Method of Implementation (Organic): GCU Reliability Upgrade midterm Pt 3 (ECP 6421) G4 - Not Installed		Installation Quantity: 600

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 17 / Infrared Search and Track (IRST) (04-14)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	69.815	110.584	110.920	-	110.920	104.393	129.011	150.230	165.000	781.777	1,621.730
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	69.815	110.584	110.920	-	110.920	104.393	129.011	150.230	165.000	781.777	1,621.730
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	69.815	110.584	110.920	-	110.920	104.393	129.011	150.230	165.000	781.777	1,621.730
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Infrared Search and Track (IRST) (Operational Requirements Document# 700-88-06) will provide the F/A-18E/F (Lot 26 and up) with an Alternative Fire Control System in a high electronic attack/radar denied environment. IRST is an evolutionary program using a two block approach. This Operational, Safety and Improvement Program (OSIP) is used to procure Block I IRST systems [Low Rate Initial Production (LRIP) I-IV and Full Rate Production (FRP)] as well as Block II Engineering Change Proposal (ECP), modifications and incorporation including retrofit and forward fit. Block II modifications include changes to Infrared Receiver (IRR) and processor and any subsystem that support IRR and processor.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

IRST development began in FY2008. IRST Block I Milestone B occurred on 17 June 2011 and the Acquisition Decision Memorandum was signed 12 July 2011. Block I Milestone C occurred on 02 December 2014 and the Acquisition Decision Memorandum was signed 24 March 2015. The LRIP I contract was awarded on 15 January 2015. Initial Operational Capability is scheduled for 1st Quarter FY 2018.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 17 / Infrared Search and Track (IRST) (04-14)			
Models of Systems Affected: F/A-18 E/F				Modification Type: CAPABILITY IMPROVEMENTS				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Infrared Search and Track (IRST) (04-14)</i>													
B Kits													
Recurring													
2.1.1) IRST B-kits (Block I) - Organic ⁽⁵⁹⁾	- / -	6 / 60.377	12 / 96.985	12 / 86.347	- / -	12 / 86.347	13 / 84.644	16 / 86.241	19 / 88.551	- / -	- / -	78 / 503.145	
2.1.2) IRST B-kits (Block II) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 127.915	67 / 469.360	92 / 597.275	
2.1.3) IRST B-Kits (Block I to Block II) - Organic ⁽⁶⁰⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 15.200	63 / 130.879	78 / 146.079	
<i>Subtotal: Recurring</i>	- / 0.000	- / 60.377	- / 96.985	- / 86.347	- / -	- / 86.347	- / 84.644	- / 86.241	- / 88.551	- / 143.115	- / 600.239	- / 1,246.499	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽⁶¹⁾	- / -	- / 5.793	- / 7.372	- / 5.500	- / -	- / 5.500	- / 4.798	- / 28.390	- / 35.564	- / 4.500	- / 81.550	- / 173.467	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / 5.793	- / 7.372	- / 5.500	- / -	- / 5.500	- / 4.798	- / 28.390	- / 35.564	- / 4.500	- / 81.550	- / 173.467	
<i>Subtotal: Infrared Search and Track (IRST) (04-14)</i>	- / -	6 / 66.170	12 / 104.357	12 / 91.847	- / -	12 / 91.847	13 / 89.442	16 / 114.631	19 / 124.115	40 / 147.615	130 / 681.789	248 / 1,419.966	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 66.170	- / 104.357	- / 91.847	- / -	- / 91.847	- / 89.442	- / 114.631	- / 124.115	- / 147.615	- / 681.789	- / 1,419.966	
Support (All Modification Items)													
3.4) Support Equipment ⁽⁶²⁾	- / -	- / 0.150	- / 1.248	- / 12.155	- / -	- / 12.155	- / 8.421	- / 8.380	- / 18.804	- / 8.220	- / 72.993	- / 130.371	
3.5) ILS	- / -	- / 1.290	- / 1.313	- / 1.337	- / -	- / 1.337	- / 1.361	- / 1.385	- / 1.410	- / 1.435	- / 14.724	- / 24.255	
3.6) Other Support ⁽⁶³⁾	- / -	- / 2.205	- / 3.666	- / 5.581	- / -	- / 5.581	- / 5.169	- / 4.615	- / 5.901	- / 7.730	- / 12.271	- / 47.138	
<i>Subtotal: Support</i>	- / 0.000	- / 3.645	- / 6.227	- / 19.073	- / -	- / 19.073	- / 14.951	- / 14.380	- / 26.115	- / 17.385	- / 99.988	- / 201.764	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	69.815	110.584	110.920	-	110.920	104.393	129.011	150.230	165.000	781.777	1,621.730	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 17 / Infrared Search and Track (IRST) (04-14)

Modification Item 1 of 1: Infrared Search and Track (IRST) (04-14)

Installation Information

Method of Implementation (Organic): IRST B-kits (Block I)	Installation Quantity: 78
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Method of Implementation (Organic): IRST B-kits (Block II)	Installation Quantity: 92
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Method of Implementation (Organic): IRST B-Kits (Block I to Block II)	Installation Quantity: 78
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Method of Implementation (Organic): IRST B-Kits (Block I to Block II)	Installation Quantity: 78
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Footnotes:

(59) IRST kits are O-level install items and have no related install cost/schedule.

(60) Quantity of 78 "Block I to Block II" kits will convert Block I kits to Block II kits.

(61) Funding for N/R in FY19 is for I-Level Standup. Funding in FY20 is for I-Level Standup and obsolescence efforts.

(62) Increase in SE in FY17 is due to organic depot standup.

(63) Funding for Other Support (integration and production support activities) increases in FY16 and FY17 due to ramp up of IRST program.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 18 / Automated Information Systems (AIS) (OSIP 018-14)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	30.136	33.435	39.017	35.596	-	35.596	45.925	55.227	53.975	54.754	96.117	444.182
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	30.136	33.435	39.017	35.596	-	35.596	45.925	55.227	53.975	54.754	96.117	444.182
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	30.136	33.435	39.017	35.596	-	35.596	45.925	55.227	53.975	54.754	96.117	444.182
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) will cover F/A-18 A-D, E/F and EA-18G Automated Maintenance Environment (AME), which includes initial procurement of software licenses, data rights, and technical publication updates including Integrated Electronic Technical Manuals (IETMs). This OSIP also covers Information Assurance (IA) and Weaponing, Integrated, Naval Aviation Technical Information Product (NATIP) and Naval Air Training and Operating Procedures Standardization (NATOPS) (WINN). NATIP and NATOPS are permanent flight clearances. This OSIP is required to provide updated/modified data for F/A-18 and EA-18G aircrew (user's manuals, pocket guides, safety-of-flight envelopes and tactical /non-tactical system employment envelopes) associated with approved aircraft engineering changes that update/enhance aircraft operational capabilities. WINN tactical employment data developed and distributed via NATIP are mandated by Office of the Chief of Naval Operations Instructions (OPNAVINST) 3510.15. WINN non-tactical employment data developed and distributed via NATOPS are mandated by OPNAVINST 3710. This OSIP will also provide Information Assurance (IA) compliance for F/A-18 A-F and EA-18G systems by updating certification and accreditation (C&A) documentation, and future IA mandates in order to maintain the Authority to Operate (ATO) for all required C&A approval. Modifications incorporated for AME integration are authorized via associated SCS software builds, SPAWAR Program Of Record (POR) Acquisition Decision Memorandums, and Engineering Change Proposals (ECPs).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

F/A-18A-D, E/F and G NATIP: Class and unclass product development expected to be complete by end of FY15 for F/A-18A-D and F/A-18E/F, and end of FY17/18 for EA-18G. Additional NATIP tasking includes Infra-red Search and Track (IRST) in FY16. Updates to published classified/unclassified chapters are increasing as additional chapters are fielded and new SCS developments (25X, H10, H12) mature. F/A-18 and EA-18G NATOPS: Development is complete and updates are ongoing.

The C&A status of F/A-18 AME (FAME) 2.X is as follows: FAME 2.X has been granted an ATO with both the United States Navy (USN) and the United States Marine Corps (USMC) until 15 July 2016.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 18 / Automated Information Systems (AIS) (OSIP 018-14)			
Models of Systems Affected: F/A-18A-F and EA-18G					Modification Type: Safety					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Automated Information Systems (AIS) (OSIP 018-14)</i>													
B Kits													
Recurring													
2.1.1 Automated Maintenance Environment (AME) software mod - Organic	- / 19.998	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.998	
<i>Subtotal: Recurring</i>	- / 19.998	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.998	
<i>Subtotal: Automated Information Systems (AIS) (OSIP 018-14)</i>	- / 19.998	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.998	
<i>Subtotal: Procurement, All Modification Items</i>	- / 19.998	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.998	
Support (All Modification Items)													
3.2) Software ⁽⁶⁴⁾	- / -	- / 21.085	- / 30.982	- / 27.416	- / -	- / 27.416	- / 37.598	- / 46.751	- / 45.345	- / 45.969	- / 22.010	- / 277.156	
3.3) Data ⁽⁶⁵⁾	- / 5.425	- / 6.856	- / 2.442	- / 2.486	- / -	- / 2.486	- / 2.531	- / 2.576	- / 2.623	- / 2.670	- / 43.282	- / 70.891	
3.6) ILS	- / 0.522	- / 0.656	- / 0.668	- / 0.680	- / -	- / 0.680	- / 0.692	- / 0.704	- / 0.717	- / 0.730	- / 3.522	- / 8.891	
3.7) Other Support	- / 14.191	- / 4.838	- / 4.925	- / 15.014	- / -	- / 15.014	- / 15.104	- / 15.196	- / 15.290	- / 15.385	- / 27.303	- / 67.246	
<i>Subtotal: Support</i>	- / 10.138	- / 33.435	- / 39.017	- / 35.596	- / -	- / 35.596	- / 45.925	- / 55.227	- / 53.975	- / 54.754	- / 96.117	- / 424.184	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	30.136	33.435	39.017	35.596	-	35.596	45.925	55.227	53.975	54.754	96.117	444.182	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 18 / Automated Information Systems (AIS) (OSIP 018-14)

Modification Item 1 of 1: Automated Information Systems (AIS) (OSIP 018-14)

Footnotes:

⁽⁶⁴⁾ (A) Funding for software was realigned from the Data cost element to a new Software cost element for accuracy. (B) Software funding is for the AME system, a suite of integrated software applications in support of operational level maintenance for F/A-18A-F and EA-18G. The modifications to the software are driven by the ADM from the Naval Tactical Command Support Systems program Optimized Organization Maintenance Activity (OOMA) release 831-01.05.11 policy/guidance directing F/A-18 and EA-18G to modify F/A-18 AME software release that integrates with OOMA/Naval Aviation Logistics Command Management Information System (NALCOMIS) software. (C) Funding varies each year due to the PMA265 re-accreditation process which is required to receive certification for ATO for F/A-18 A-F and EA-18G aircraft.

⁽⁶⁵⁾ Funding for Data cost element is required due to the transition of technical publication data and IETMs from several OSIPs into this OSIP. Technical publications data and IETMS modifications driven by AME and SCS software upgrades will be reflected in this OSIP. ECP driven technical data changes will be annotated per specific OSIPs.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.901	10.940	9.012	39.520	-	39.520	90.862	138.704	137.908	145.880	2,561.735	3,144.462
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.901	10.940	9.012	39.520	-	39.520	90.862	138.704	137.908	145.880	2,561.735	3,144.462
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.901	10.940	9.012	39.520	-	39.520	90.862	138.704	137.908	145.880	2,561.735	3,144.462
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Incorporation of structural and sub-systems enhancements and changes are required to extend the F/A-18E/F and EA-18G service life and maintain sufficient aircraft inventory to meet fleet operational requirements through FY2043. Structural enhancements and changes include resolution of discrepancies identified as a result of Service Life Assessment Program (SLAP) analysis and in-service experience. These enhancements and changes include: modifications to allow the entire airframe and aircraft sub-systems to extend flight hours and modifications to ensure landing gear, catapult and attachment components can extend total landings. Modifications will include: Block 1 Forward Fuselage, Block 2 Forward Fuselage, Inner Wing Panel (Pre-CRI), Inner Wing Panel (CRI), Outer Wing Panel (Pre-CRI), Outer Wing Panel (CRI), Center Fuselage, Aft Fuselage, Vertical Tail, Hydraulic Systems, Landing Gear Systems, Fuel Delivery Systems, Environmental Control Systems, and Mechanical Systems. The unacceptable alternative to retrofitting would be the failure to reach full fatigue life for these aircraft and to not correct the structural defects discovered on fatigue test articles. In many cases, the mission capability of the aircraft would be adversely affected in addition to its reduced service life. As a result, aircraft may be prematurely removed from useful service. SLAP analyzes the critical structural and sub-system areas to determine crack initiation, and then Service Life Extension Program (SLEP) will produce Engineering Change Proposals (ECPs) for life limited locations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Currently all Lot 21 through 38 aircraft have service life limits established by the F/A-18 and EA-18G Service Life Bulletin without the service life management plan modifications to extended the service life. Boeing and Northrop Grumman Corporation are currently in work performing structures and sub-systems SLAP. As SLAP analysis is completed, "hot spots" will be reviewed and analyzed under SLEP to determine the best approach for extending specific areas of concern. McDonnell Douglas Corporation, Northrop Grumman Corporation and organic Fleet Support Team (FST) will begin non-recurring engineering for ECPs to modify these aircraft to restore the airframe and subsystems to full life beginning in FY 14. SLAP Phase B for subsystems completed 16 September 2013. SLAP Phase B for structures is projected to complete FY 19.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)			
Models of Systems Affected: F/A-18E/F and EA-18G					Modification Type: SAFETY / LIFE EXTENSION					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: F/A-18E/F and EA-18G SLEP (OSIP 020-14)</i>													
A Kits													
Recurring													
1.1.1) ECP-6465 Block 1 Forward Fuselage (137 Block 1) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.036	72 / 0.334	224 / 1.058	189 / 0.909	1,390 / 7.397	1,883 / 9.734	
1.1.2) ECP-6466 Block 2 Forward Fuselage (423 Block 2) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.018	72 / 0.334	62 / 0.293	72 / 0.346	2,130 / 11.413	2,340 / 12.404	
1.1.3) ECP-6469: Inner Wing Panel (Pre-CRI) - NonOrganic	- / -	- / -	- / -	2 / 10.051	- / -	2 / 10.051	6 / 30.697	13 / 67.707	9 / 47.718	6 / 32.384	39 / 250.532	75 / 439.089	
1.1.4) ECP-XXX4: Inner Wing Panel (CRI) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.318	81 / 4.370	1,433 / 85.386	1,520 / 90.074	
1.1.5) ECP-6469: Outer Wing Panel (Pre-CRI) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.060	10 / 0.306	138 / 4.727	150 / 5.093	
1.1.6) ECP-6467 Center Fuselage (Forward Center + Aft Center) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.052	216 / 1.417	400 / 2.672	400 / 2.720	13,231 / 125.677	14,255 / 132.538	
1.1.7) ECP-6468 Aft Fuselage - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.022	72 / 0.409	62 / 0.358	72 / 0.423	3,599 / 23.193	3,809 / 24.405	
1.1.8) ECP-XX11: Landing Gear Systems - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.190	40 / 3.871	3,275 / 350.406	3,317 / 354.467	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 10.051	- / -	- / 10.051	- / 30.825	- / 70.201	- / 52.667	- / 45.329	- / 858.731	- / 1,067.804	
Non-Recurring													
1.2.1) Installation Kit N/R - Organic ⁽⁶⁶⁾	- / 9.869	- / 9.385	- / 7.422	- / 24.100	- / -	- / 24.100	- / 31.428	- / 33.816	- / 28.999	- / 27.045	- / 27.958	- / 200.022	
Subtotal: Non-Recurring	- / 9.869	- / 9.385	- / 7.422	- / 24.100	- / -	- / 24.100	- / 31.428	- / 33.816	- / 28.999	- / 27.045	- / 27.958	- / 200.022	
Subtotal: F/A-18E/F and EA-18G SLEP (OSIP 020-14)	- / 9.869	- / 9.385	- / 7.422	2 / 34.151	- / -	2 / 34.151	30 / 62.253	445 / 104.017	767 / 81.666	870 / 72.374	25,235 / 886.689	27,349 / 1,267.826	
Subtotal: Procurement, All Modification Items	- / 9.869	- / 9.385	- / 7.422	- / 34.151	- / -	- / 34.151	- / 62.253	- / 104.017	- / 81.666	- / 72.374	- / 886.689	- / 1,267.826	
Support (All Modification Items)													
3.2) Data	- / -	- / -	- / -	- / 0.944	- / -	- / 0.944	- / 3.308	- / 4.193	- / 4.268	- / 3.923	- / 2.091	- / 18.727	
3.4) Support Equipment	- / -	- / -	- / -	- / 0.030	- / -	- / 0.030	- / 0.570	- / 0.804	- / 0.818	- / 0.819	- / 0.565	- / 3.606	
3.5) ILS ⁽⁶⁷⁾	- / 0.007	- / 1.042	- / 0.885	- / 2.682	- / -	- / 2.682	- / 9.844	- / 10.808	- / 10.937	- / 11.186	- / 135.885	- / 183.276	
3.6) Other Support ⁽⁶⁸⁾	- / 0.025	- / 0.513	- / 0.705	- / 1.713	- / -	- / 1.713	- / 14.472	- / 16.285	- / 16.223	- / 16.441	- / 233.602	- / 299.979	
Subtotal: Support	- / 0.032	- / 1.555	- / 1.590	- / 5.369	- / -	- / 5.369	- / 28.194	- / 32.090	- / 32.246	- / 32.369	- / 372.143	- / 505.588	
Installation													
Modification Item 1 of 1: F/A-18E/F and EA-18G SLEP (OSIP 020-14)	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.415	- / 2.597	- / 23.996	- / 41.137	- / 1,302.903	- / 1,371.048	

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)				
Models of Systems Affected: F/A-18E/F and EA-18G			Modification Type: SAFETY / LIFE EXTENSION				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.415	- / 2.597	- / 23.996	- / 41.137	- / 1,302.903	- / 1,371.048
Total												
Total Cost (Procurement + Support + Installation)	9.901	10.940	9.012	39.520	-	39.520	90.862	138.704	137.908	145.880	2,561.735	3,144.462

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)

Modification Item 1 of 1: F/A-18E/F and EA-18G SLEP (OSIP 020-14)

Manufacturer Information

Manufacturer Name: Boeing - SLEP ECPs	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 8

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates		Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: SLEP Installs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.415	- / -	- / -	- / -	- / -	2 / 0.415
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 2.597	- / -	- / -	- / -	30 / 2.597
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	445 / 23.996	- / -	- / -	445 / 23.996
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	767 / 41.137	- / -	767 / 41.137
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	870 / 52.932	870 / 52.932
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25,235 / 1,249.971	25,235 / 1,249.971
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.415	30 / 2.597	445 / 23.996	767 / 41.137	26,105 / 1,302.903	27,349 / 1,371.048

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	9	9	6	6	115	114	108	108	195	196	188	188	26,105	27,349
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	9	9	6	6	115	114	108	108	195	196	188	188	26,105	27,349

Footnotes:

⁽⁶⁶⁾ (A) The increase in Installation Kit N/R from FY16 to FY17 reflects a one-time procurement of tooling required to perform the modifications. Funding increase in FY18 and FY19 is due to ramp up of non-recurring engineering efforts for SLEP ECPs. (B) NRE is required in future years due to development of multiple ECPs as locations of the aircraft are determined to need extension. Each structural zone ECP will require multiple revisions for multiple kit requirements. Each of these efforts will require NRE.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 19 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)

⁽⁶⁷⁾ Funding increase in FY18 is due to ramp up of SLEP efforts.

⁽⁶⁸⁾ Funding increase in FY18 is due to ramp up of SLEP efforts.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series				Modification Number / Title: 20 / Priority Stores Integration (OSIP 10-16)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	14.180	13.136	-	13.136	10.951	13.693	13.373	15.941	51.533	132.807
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	14.180	13.136	-	13.136	10.951	13.693	13.373	15.941	51.533	132.807
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	14.180	13.136	-	13.136	10.951	13.693	13.373	15.941	51.533	132.807
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The purpose of this Operational Safety Improvement Program (OSIP) is to facilitate aircraft capability upgrades to carry priority stores for F/A-18A-F and EA-18G aircraft. Priority Stores Integration contains fleet required air to air and air to ground weapon configurations upgrades to support fleet requirements provided by OPNAV N98 and Commander, Naval Air Forces. This OSIP will provide F/A-18 and EA-18G aircraft weapon systems software and aeromechanical hardware upgrades needed during fleet operations to ensure that mission readiness and safety of flight regimes are maintained. It will also allow for weapon capability expansion through engineering, logistics, obsolescence updates and verification and validation of incorporated engineering changes. Specifically this will provide mission flexibility by updating System Configuration Set (SCS) software in response to weapon software upgrades and weapon carriage and release characteristics.

Hardware and software modifications may be incorporated for the following efforts: Air Intercept Missile (AIM)-7, AIM-120, AIM-9, Joint Standoff Weapon (JSOW), Joint Direct Attack Munition (JDAM), Laser JDAM (LJDAM), Guided Bomb Unit (GBU)-10/12/16/24, Harpoon, Standoff Land Attack Missile Extended Range (SLAM-ER), underwater time bomb mines, aerial weapon fuzes, High Speed Anti-Radiation Missile (HARM), Advanced Anti-Radiation Guided Missile (AARGM), aircraft rocket systems, Advanced Guided Missile (AGM)-65 Maverick, M61 aerial rotary cannon, ALQ-99, ALQ-218, ALE-43, Cluster Bomb Units (CBUs), aerial countermeasure flares and smoke emitters, General Purpose (GP) bombs, Laser Guided Training Rounds (LGTRs), Small Diameter Bomb (SDB)-II, the Offensive Anti Surface Warfare (OASuW), the Miniature Air Launched Decoy (MALD), Next Generation Jammer (NGJ) pod, Bomb Releasable Unit (BRU)-32, BRU-55, Launcher Ariel Unit (LAU)-127, LAU-116, LAU-115, LAU-118, LAU-117, Adapter Unit (ADU)-779, SUU-78, SUU-79 and the SUU-80. This OSIP will provide aircraft platform growth flexibility with all future weapons and weapon subsystem upgrades to F/A-18A-F and EA-18G aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Weapons are procured with Weapons Procurement, Navy (WPN) funding. Hardware and software modifications to the aircraft in order to utilize the weapons are funded with APN-5.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 20 / Priority Stores Integration (OSIP 10-16)			
Models of Systems Affected: F/A-18A-F and EA-18G					Modification Type: CAPABILITY IMPROVEMENT					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Priority Stores Integration (OSIP 10-16)</i>													
A Kits													
Recurring													
1.1.1) ECP XXXA - LAU-115 - Organic	- / -	- / -	616 / 0.250	616 / 0.250	- / -	616 / 0.250	- / -	- / -	- / -	- / -	- / -	1,232 / 0.500	
1.1.2) ECP XXXB - LAU-116 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	1,232 / 0.518	- / -	- / -	- / -	- / -	1,232 / 0.518	
1.1.3) ECP XXXC - LAU-127 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	616 / 0.528	616 / 0.537	616 / 1.282	- / -	1,848 / 2.347	
1.1.4) ECP XXXD - SUU-78 - Organic	- / -	- / -	616 / 0.250	616 / 0.250	- / -	616 / 0.250	- / -	- / -	- / -	- / -	- / -	1,232 / 0.500	
1.1.5) ECP XXXE - SUU-79 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	1,232 / 0.518	- / -	- / -	- / -	- / -	1,232 / 0.518	
1.1.6) ECP XXXF - SUU-80 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	616 / 0.527	616 / 0.536	616 / 1.282	- / -	1,848 / 2.345	
1.1.7) ECP XXXG - M61 Gun - Organic	- / -	- / -	616 / 0.500	616 / 0.518	- / -	616 / 0.518	- / -	- / -	- / -	616 / 1.282	- / -	1,848 / 2.300	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 1.000</i>	<i>- / 1.018</i>	<i>- / -</i>	<i>- / 1.018</i>	<i>- / 1.036</i>	<i>- / 1.055</i>	<i>- / 1.073</i>	<i>- / 3.846</i>	<i>- / -</i>	<i>- / 9.028</i>	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / -	- / -	- / 5.061	- / 3.662	- / -	- / 3.662	- / 3.621	- / 3.916	- / 2.945	- / 3.524	- / 18.462	- / 41.191	
<i>Subtotal: Non-Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 5.061</i>	<i>- / 3.662</i>	<i>- / -</i>	<i>- / 3.662</i>	<i>- / 3.621</i>	<i>- / 3.916</i>	<i>- / 2.945</i>	<i>- / 3.524</i>	<i>- / 18.462</i>	<i>- / 41.191</i>	
B Kits													
Recurring													
2.1.1) 27C ZAP Algorithm - Organic	- / -	- / -	- / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.120	
2.1.2) 29C (SCS) - Organic	- / -	- / -	- / 1.466	- / 1.821	- / -	- / 1.821	- / -	- / -	- / -	- / -	- / -	- / 3.287	
2.1.3) 31C (SCS) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.722	- / 1.869	- / 2.141	- / -	- / 14.345	- / 19.077	
2.1.4) H14 (SCS) - Organic	- / -	- / -	- / 1.621	- / 1.634	- / -	- / 1.634	- / -	- / -	- / -	- / -	- / -	- / 3.255	
2.1.5) H16 (SCS) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.481	- / 1.671	- / 1.938	- / 3.200	- / 13.355	- / 20.645	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 3.207</i>	<i>- / 3.455</i>	<i>- / -</i>	<i>- / 3.455</i>	<i>- / 1.203</i>	<i>- / 3.540</i>	<i>- / 4.079</i>	<i>- / 3.200</i>	<i>- / 27.700</i>	<i>- / 46.384</i>	
<i>Subtotal: Priority Stores Integration (OSIP 10-16)</i>	<i>- / -</i>	<i>- / -</i>	<i>1,848 / 9.268</i>	<i>1,848 / 8.135</i>	<i>- / -</i>	<i>1,848 / 8.135</i>	<i>2,464 / 5.860</i>	<i>1,232 / 8.511</i>	<i>1,232 / 8.097</i>	<i>1,848 / 10.570</i>	<i>- / 46.162</i>	<i>10,472 / 96.603</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 9.268</i>	<i>- / 8.135</i>	<i>- / -</i>	<i>- / 8.135</i>	<i>- / 5.860</i>	<i>- / 8.511</i>	<i>- / 8.097</i>	<i>- / 10.570</i>	<i>- / 46.162</i>	<i>- / 96.603</i>	
Support (All Modification Items)													
3.5) ILS	- / -	- / -	- / 0.383	- / 0.390	- / -	- / 0.390	- / 0.397	- / 0.404	- / 0.411	- / 0.419	- / 0.419	- / 2.823	
3.6) Other Support	- / -	- / -	- / 4.529	- / 4.611	- / -	- / 4.611	- / 4.694	- / 4.778	- / 4.865	- / 4.952	- / 4.952	- / 33.381	
<i>Subtotal: Support</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 4.912</i>	<i>- / 5.001</i>	<i>- / -</i>	<i>- / 5.001</i>	<i>- / 5.091</i>	<i>- / 5.182</i>	<i>- / 5.276</i>	<i>- / 5.371</i>	<i>- / 5.371</i>	<i>- / 36.204</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 20 / Priority Stores Integration (OSIP 10-16)			
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: CAPABILITY IMPROVEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	14.180	13.136	-	13.136	10.951	13.693	13.373	15.941	51.533	132.807	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 20 / Priority Stores Integration (OSIP 10-16)
<i>Modification Item 1 of 1:</i> Priority Stores Integration (OSIP 10-16)		
Installation Information		
Method of Implementation (Organic): ECP XXXA - LAU-115	Installation Quantity: 1232	
Method of Implementation (Organic): ECP XXXB - LAU-116	Installation Quantity: 1232	
Method of Implementation (Organic): ECP XXXC - LAU-127	Installation Quantity: 1848	
Method of Implementation (Organic): ECP XXXD - SUU-78	Installation Quantity: 1232	
Method of Implementation (Organic): ECP XXXE - SUU-79	Installation Quantity: 1232	
Method of Implementation (Organic): ECP XXXF - SUU-80	Installation Quantity: 1848	
Method of Implementation (Organic): ECP XXXG - M61 Gun	Installation Quantity: 1848	

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 21 / Inactive OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	265.409	-	-	-	-	-	-	-	-	-	-	265.409
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	265.409	-	-	-	-	-	-	-	-	-	-	265.409
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	265.409	-	-	-	-	-	-	-	-	-	-	265.409
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 21 / Inactive OSIPs			
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: N/A</i>													
<i>Subtotal: N/A</i>													
<i>Subtotal: Procurement, All Modification Items</i>													
Support (All Modification Items)													
<i>3.1) Inactive OSIPs</i>													
<i>Subtotal: Support</i>													
Installation													
<i>Subtotal: Installation</i>													
Total													
Total Cost (Procurement + Support + Installation)													

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 21 / Inactive OSIPs
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Modification Item 1 of 1: N/A

Manufacturer Information

Manufacturer Name: N/A	Manufacturer Location: N/A
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Administrative Leadtime (<i>in Months</i>):	Production Leadtime (<i>in Months</i>):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Support Only Installation	Installation Quantity: 0
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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0526 / H-46 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	739.222	0.402	-	-	-	-	-	-	-	-	-	739.624
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	739.222	0.402	-	-	-	-	-	-	-	-	-	739.624
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	739.222	0.402	-	-	-	-	-	-	-	-	-	739.624

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the H-46 aircraft. The H-46 is a twin-turbine powered dual-piloted tandem-rotor helicopter. The cabin contains provisions for accommodating 25 troops and crew members. The cabin also contains an integral cargo and rescue system. The overall goal of the modification budget in FY 2015 is to keep the H-46 a viable platform while a replacement aircraft is being fielded. H-46 helicopters are used by the Marine Corps for troop transport and search and rescue missions. United States Marine Corps inventory total: (9) aircraft: (4) HH-46E active + (5) CH-46E reserve aircraft. The average age and service life of aircraft (as of December 2014) is currently 49 years (or 12,522 hours). Design service life is 17,500 hours. All remaining aircraft (active and reserve) will be out of inventory by 30 September 2015.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0526 / H-46 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / H-46 GASSP (018-07) (SAFETY (HONA Category A))			- / 187.635	- / 0.402	- / -	- / -	- / -	- / -
P-3a	2 / INACTIVE OSIPS (TBD)			- / 551.587	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 739.222	- / 0.402	- / -	- / -	- / -	- / -

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / H-46 GASSP (018-07) (SAFETY (HONA Category A))			- / -	- / -	- / -	- / -	- / -	- / 188.037
P-3a	2 / INACTIVE OSIPS (TBD)			- / -	- / -	- / -	- / -	- / -	- / 551.587
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 739.624

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0526 / H-46 Series				Modification Number / Title: 1 / H-46 GASSP (018-07)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	187.635	0.402	-	-	-	-	-	-	-	-	-	188.037
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	187.635	0.402	-	-	-	-	-	-	-	-	-	188.037
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	187.635	0.402	-	-	-	-	-	-	-	-	-	188.037

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Provides targeted initiatives to remedy the top age-related safety and reliability issues engineered to address the heavy wear-and-tear effects of high-tempo Overseas Contingency Operations (400% of planned utilization rate) on CH-46 airframes and subsystems in order to ensure safe, reliable and effective aircraft operation throughout the United States Marine Corps Medium Lift transition period.

This Operational, Safety and Improvement Program will execute multiple Engineering Change Packages (ECPs), grouped in three sequential Block upgrades (A, B, and C). Elements within each Block upgrade have been grouped by similar complexities and lead times.

Specific ECPs:

1. Redesign and modernize wiring harnesses in airframe areas subject to high levels of heat, sand contamination and/or vibration.
2. Redesign and modernize hydraulics subsystems using common or Commercial Off The Shelf (COTS) components.
3. Redesign and improve portions of airframe structure subject to high levels of fatigue, corrosion and other stress.
4. Improve and modernize critical avionics, Aircraft Survival Equipment and other aircraft systems to resolve obsolescence, reliability or safety issues using common, previously qualified or COTS solutions.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

All installations (Block A, B, and C) are complete. All work is complete.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0526 / H-46 Series					Modification Number / Title: 1 / H-46 GASSP (018-07)			
Models of Systems Affected: H-46 Series				Modification Type: SAFETY (HONA Category A)				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: H-46 GASSP (018-07)</i>													
A Kits													
Recurring													
1.1.1) GASSP Block A (A-Kit) - NonOrganic	371 / 13.356	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	371 / 13.356	
1.1.2) GASSP Block B (A-Kit) - NonOrganic	146 / 4.645	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	146 / 4.645	
1.1.3) GASSP Block C (A-Kit) - NonOrganic	268 / 25.453	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	268 / 25.453	
1.1.4) GASSP Kits (IMP Mod) - NonOrganic	190 / 5.492	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	190 / 5.492	
<i>Subtotal: Recurring</i>	<i>- / 48.946</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 48.946</i>	
Non-Recurring													
1.2.1) NRE - Organic	- / 6.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.832	
<i>Subtotal: Non-Recurring</i>	<i>- / 6.832</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 6.832</i>	
B Kits													
Recurring													
2.1.1) Installation Equipment - Organic	10,155 / 54.584	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10,155 / 54.584	
<i>Subtotal: Recurring</i>	<i>- / 54.584</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 54.584</i>	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	1 / 10.952	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 10.952	
<i>Subtotal: Non-Recurring</i>	<i>- / 10.952</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 10.952</i>	
<i>Subtotal: H-46 GASSP (018-07)</i>	<i>11,131 / 121.314</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>11,131 / 121.314</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 121.314</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 121.314</i>	
Support (All Modification Items)													
3.2) Data	- / 1.838	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.838	
3.3) Training Equipment	8 / 0.492	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.492	
3.4) Support Equipment	- / 19.352	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.352	
3.5) ILS	- / 12.104	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.104	
3.6) Other Support	- / 136.253	- / 10.402	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 136.655	
<i>Subtotal: Support</i>	<i>- / 50.039</i>	<i>- / 10.402</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 50.441</i>	
Installation													
<i>Modification Item 1 of 1: H-46 GASSP (018-07)</i>	<i>- / 16.282</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 16.282</i>	
<i>Subtotal: Installation</i>	<i>- / 16.282</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 16.282</i>	
Total													

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0526 / H-46 Series	Modification Number / Title: 1 / H-46 GASSP (018-07)
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Models of Systems Affected: H-46 Series **Modification Type:** SAFETY (HONA Category A) **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total Cost (Procurement + Support + Installation)	187.635	0.402	-	-	-	-	-	-	-	-	-	188.037

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0526 / H-46 Series	Modification Number / Title: 1 / H-46 GASSP (018-07)

Modification Item 1 of 1: H-46 GASSP (018-07)

Manufacturer Information

Manufacturer Name: Block C Mfg - PIF	Manufacturer Location: Huntsville, Alabama
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 1

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: GASSP Installs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	927 / 16.282	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	927 / 16.282
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	927 / 16.282	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	927 / 16.282

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	927	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	927
Out	927	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	927

Method of Implementation (Organic): Installation Equipment **Installation Quantity:** 10155

Method of Implementation (Organic): Installation Equipment N/R **Installation Quantity:** 1

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0526 / H-46 Series	Modification Number / Title: 2 / INACTIVE OSIPS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	551.587	-	-	-	-	-	-	-	-	-	-	551.587
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	551.587	-	-	-	-	-	-	-	-	-	-	551.587
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	551.587	-	-	-	-	-	-	-	-	-	-	551.587
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0526 / H-46 Series					Modification Number / Title: 2 / INACTIVE OSIPS			
Models of Systems Affected: [No Model Specified]					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: INACTIVE OSIPS</i>													
A Kits													
Recurring													
1.1.1) Inactive OSIP Total - Organic	- / 551.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 551.587	
<i>Subtotal: Recurring</i>	- / 551.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 551.587	
<i>Subtotal: INACTIVE OSIPS</i>	- / 551.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 551.587	
<i>Subtotal: Procurement, All Modification Items</i>	- / 551.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 551.587	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	551.587	-	-	-	-	-	-	-	-	-	-	551.587	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0526 / H-46 Series	Modification Number / Title: 2 / INACTIVE OSIPS
Modification Item 1 of 1: INACTIVE OSIPS		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0528 / H-53 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,463.726	36.152	36.000	46.095	-	46.095	32.559	26.147	34.466	37.096	177.772	1,890.013
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,463.726	36.152	36.000	46.095	-	46.095	32.559	26.147	34.466	37.096	177.772	1,890.013
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,463.726	36.152	36.000	46.095	-	46.095	32.559	26.147	34.466	37.096	177.772	1,890.013

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION: This line item funds modifications to the CH-53E - 149 and MH-53E - 28 aircraft. The aircraft inventories to be modified vary by Operational, Safety, and Improvement Program, dependent on kit modification production lead-time. The CH-53E is a seven blade main rotor and a four-blade canted tail rotor helicopter powered by three T64-GE-416/416A/419 turbo shaft engines. The CH-53E aircraft are capable of both land and ship based transport of heavy equipment, supplies, and personnel. The MH-53E is similar to the CH-53E with additional capabilities for Airborne Mine Countermeasures, Vertical On-Board Delivery, and Special Missions which require longer range and more precise navigation than that of the CH-53E. The overall goal of the modifications budgeted in FY17 is increased communication and navigation, integrated mechanical diagnostics and condition based maintenance, propulsion and power, degraded visual environment mitigation, survivability and sustainment initiatives, and fleet operation and safety performance in the H-53 community.

Due to program priorities FY17 funding was realigned from Nacelles (09-01) to ERIP (10-05) to accelerate PPC-119 installations, Sustainment (08-06) to accelerate Kapton installs, DIRCM (10-08) to accelerate DIRCM installs and Avionics (31-12) to accelerate CSU and SATCOM installs. FY17 Kapton install unit cost reflects higher than prior fiscal years as all FY17 installs are Phase III, the most complex of the three phases being incorporated.

The H-53E number 1 & number 3 engine Nacelles are a safety risk due to Things Falling Off Aircraft (TFOA). To date (84) TFOA occurrences have occurred (12 in the last 4 years) on the H-53E aircraft. Of the (84) occurrences, (10) have impacted the Tail Rotor. The H-53E Engine Nacelles have become a top Direct Maintenance Man Hour driver in the fleet. This procurement improves fleet safety and readiness. Under H-53 Avionics (31-12) additional Critical Survivability Upgrades will be installed as well as the procurement of H-53 Smart Multi-Function Color Display (SMFCD). This request will provide procurement and installation for forward deployed aircraft with integrated form, fit solution for display of Blue Force Tracker (BFT), Forward Looking Infrared with intuitive hover display, moving map and real time threat display for aircraft Survival Equipment suite in an SMFCD. Non-recurring engineering is planned to upgrade the MH-53E antiquated cockpit with critical required safety and avionics upgrades, providing increased Situational Awareness and mission efficiency with minefield, Blue Force Tracker, Area Navigation RNAV, map and hover displays. The kit procurement for the MH Embedded Positioning System/Inertial Navigation System (EGI) that will allow the MH-53E to utilize the full capability of the APX-123 transponder commences in FY16.

Notes:

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0528 / H-53 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	

1. Installs are delayed throughout OSIPs due to aircraft availability.
 2. Critical Systems Upgrade (CSU) is comprised of BFT kits, Satellite Communications (SATCOM) 1851A radios, advanced digital antenna production, Heads Up Display (HUD) controlled display navigation unit and software upgrades in support of the Visual Degraded Environment (VDE) solution. Due to 6 mishaps, installation is now 149 plus the 10 trainers. Installs, QTY (58) occurred in OSIP 15-05. Remaining installs QTY(101) will complete under Avionics OSIP 31-12.
 3. Beginning FY15, Navy active and Navy reserve aircraft costs are separately identified in the budget exhibits. 143 active CH-53E, 6 reserve CH-53E, 21 active MH-53E and 7 reserve MH-53E aircraft comprise the H-53 fleet.
 Historically, Navy active and Navy reserve funds have been budgeted to provide capability to all 177 H-53 aircraft.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Navy	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	15.509	27.837	43.299	-	43.299	27.914	21.572	29.760	32.290
NR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	20.643	8.163	2.796	-	2.796	4.645	4.575	4.706	4.806
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	36.152	36.000	46.095	-	46.095	32.559	26.147	34.466	37.096

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0528 / H-53 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / ATTEN. TRP SEATS (OSIP 020-97) (SAFETY)			- / 53.489	- / 0.018	- / 0.005	- / -	- / -	- / -
P-3a	2 / INTEGRATED MECH DIAG (OSIP 007-98) (SAFETY, READINESS, AND MAINTAINABILITY)			- / 163.630	- / 4.544	- / 4.693	- / 5.013	- / -	- / 5.013
P-3a	3 / NACELLES (OSIP 009-01) (MISSION/MISSION ENHANCEMENT)			- / 26.583	- / 8.991	- / 7.092	- / 1.162	- / -	- / 1.162
P-3a	4 / H-53 ERIIP (OSIP 010-05) (SAFETY, READINESS AND MAINTAINABILITY)			- / 178.351	- / 2.586	- / 2.836	- / 2.858	- / -	- / 2.858
P-3a	5 / H-53 SURVIVABILITY (OSIP 015-05) (formerly Medivac) (SAFETY, READINESS AND MAINTAINABILITY)			- / 139.213	- / 0.385	- / -	- / -	- / -	- / -
P-3a	6 / H-53 A/C SUSTAINMENT (OSIP 008-06) (MISSION/PERFORMANCE SUSTAINMENT)			- / 239.657	- / 12.510	- / 13.205	- / 14.423	- / -	- / 14.423
P-3a	7 / DIRCM (OSIP 010-08) (MISSION/PERFORMANCE SUSTAINMENT)			- / 205.405	- / 0.970	- / 0.354	- / 0.985	- / -	- / 0.985
P-3a	8 / H-53 AVIONICS (OSIP 031-12) (MISSION/PERFORMANCE SUSTAINMENT)			- / 16.621	- / 6.148	- / 7.815	- / 21.654	- / -	- / 21.654
P-3a	9 / Archived OSIPS (Various)			- / 440.777	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 1,463.726	- / 36.152	- / 36.000	- / 46.095	- / -	- / 46.095

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / ATTEN. TRP SEATS (OSIP 020-97) (SAFETY)			- / -	- / -	- / -	- / -	- / -	- / 53.512
P-3a	2 / INTEGRATED MECH DIAG (OSIP 007-98) (SAFETY, READINESS, AND MAINTAINABILITY)			- / 3.896	- / 4.796	- / 1.955	- / 1.821	- / 1.100	- / 191.448
P-3a	3 / NACELLES (OSIP 009-01) (MISSION/MISSION ENHANCEMENT)			- / 8.785	- / 3.678	- / 2.786	- / 6.007	- / 0.436	- / 65.520
P-3a	4 / H-53 ERIIP (OSIP 010-05) (SAFETY, READINESS AND MAINTAINABILITY)			- / 2.251	- / 1.389	- / 1.420	- / 1.420	- / 1.608	- / 194.719
P-3a	5 / H-53 SURVIVABILITY (OSIP 015-05) (formerly Medivac) (SAFETY, READINESS AND MAINTAINABILITY)			- / -	- / -	- / -	- / -	- / 4.382	- / 143.980
P-3a	6 / H-53 A/C SUSTAINMENT (OSIP 008-06) (MISSION/PERFORMANCE SUSTAINMENT)			- / 5.973	- / 5.070	- / 6.684	- / 4.913	- / 93.821	- / 396.256
P-3a	7 / DIRCM (OSIP 010-08) (MISSION/PERFORMANCE SUSTAINMENT)			- / -	- / -	- / 1.197	- / 0.921	- / -	- / 209.832
P-3a	8 / H-53 AVIONICS (OSIP 031-12) (MISSION/PERFORMANCE SUSTAINMENT)			- / 11.654	- / 11.214	- / 20.424	- / 22.014	- / 76.425	- / 193.969
P-3a	9 / Archived OSIPS (Various)			- / -	- / -	- / -	- / -	- / -	- / 440.777
P-40	Total Gross/Weapon System Cost			- / 32.559	- / 26.147	- / 34.466	- / 37.096	- / 177.772	- / 1,890.013

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 1 / ATTEN. TRP SEATS (OSIP 020-97)
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	53.489	0.018	0.005	-	-	-	-	-	-	-	-	53.512
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	53.489	0.018	0.005	-	-	-	-	-	-	-	-	53.512
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	53.489	0.018	0.005	-	-	-	-	-	-	-	-	53.512
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Utility and Troop transport mission increasing in importance. Current troop/passenger seats are 1950 generation. Design does not provide impact protection of current rotorcraft seat designs. The impulsive type loading experienced during survivable mishaps produces amplified seat/floor anchor loads and potentially injurious occupant decelerations. Due to this operational deficiency, NDI crashworthy troop seat program established. Non-Developmental Item are lightweight off-the-shelf seats that provide protection by limiting an occupants inertial loading to survivable levels by attenuating impact forces to below survivable ranges and enables the occupant to rapidly egress a downed aircraft are being sought.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Funding provided non-recurring engineering, qualification, initial procurement, support and installs for Crash Attenuating Crew Chief Seat (CACCS) for all H-53 Type/Model/Series helicopters.

Notes:

1. CACCS was incorrectly listed as B kit and has been updated to reflect A kit procurement and install schedule. Install dollars required through FY16. Due to early sundown of CH-53D, QTY (22) CACCS installs will not be completed.
2. CACCS installs delayed due to aircraft unavailability.
3. (QTY) 219 CACCS procured. (QTY) 197 will be installed due to installs not completed prior to retirement of CH-53D.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 1 / ATTEN. TRP SEATS (OSIP 020-97)			
Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total					Modification Type: SAFETY					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: ATTEN. TRP SEATS (OSIP 020-97)</i>													
A Kits													
Recurring													
1.1.1) Crew Chief Seats (CACCS) - NonOrganic ⁽¹⁾	219 / 1.854	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	219 / 1.854	
1.1.2) Archived ECP's OSIP 20-97 - Organic	519 / 27.679	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	519 / 27.679	
<i>Subtotal: Recurring</i>	- / 29.533	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.533	
<i>Subtotal: ATTEN. TRP SEATS (OSIP 020-97)</i>	738 / 29.533	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	738 / 29.533	
<i>Subtotal: Procurement, All Modification Items</i>	- / 29.533	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.533	
Support (All Modification Items)													
2.1) Engineering Change Orders	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	
2.2) Data	- / 1.215	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.215	
2.3) Training Equipment	6 / 0.061	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.061	
2.4) Support Equipment	- / 0.244	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.244	
2.5) ILS	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	
2.6) Other Support	- / 14.959	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.959	
2.7) Installation Cost-Prior Year	272 / 6.160	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	272 / 6.160	
<i>Subtotal: Support</i>	- / 23.439	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.439	
Installation													
<i>Modification Item 1 of 1: ATTEN. TRP SEATS (OSIP 020-97)</i>	- / 0.517	- / 0.018	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.540	
<i>Subtotal: Installation</i>	- / 0.517	- / 0.018	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.540	
Total													
Total Cost (Procurement + Support + Installation)	53.489	0.018	0.005	-	-	-	-	-	-	-	-	53.512	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 1 / ATTEN. TRP SEATS (OSIP 020-97)

Modification Item 1 of 1: ATTEN. TRP SEATS (OSIP 020-97)

Manufacturer Information

Manufacturer Name: Eastwest Industries, INC-CACCS	Manufacturer Location: Ronkonkoma, NY
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: CONTRACTOR INSTALLED-FIELD MOD TEAM:: Installation Name: ATTEN. TRP SEATS (OSIP 020-97) CACCS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	189 / 0.517	6 / 0.018	2 / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	197 / 0.540
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	189 / 0.517	6 / 0.018	2 / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	197 / 0.540

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	189	-	1	1	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	197
Out	189	-	1	1	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	197

Method of Implementation (Organic): Archived ECP's OSIP 20-97 **Installation Quantity:** 519

Footnotes:

⁽¹⁾ (QTY) 219 CACCS procured. (QTY) 197 will be installed due to installs not completed prior to retirement of CH-53D.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series			Modification Number / Title: 2 / INTEGRATED MECH DIAG (OSIP 007-98)					

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	163.630	4.544	4.693	5.013	-	5.013	3.896	4.796	1.955	1.821	1.100	191.448
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	163.630	4.544	4.693	5.013	-	5.013	3.896	4.796	1.955	1.821	1.100	191.448
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	163.630	4.544	4.693	5.013	-	5.013	3.896	4.796	1.955	1.821	1.100	191.448
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Integrated Mechanical Diagnostics (IMD) is a helicopter monitoring and diagnostics system that provides continuous on board monitoring and diagnostics of engine health, gearbox and drive train vibrations, oil debris, Rotor Track and Balance (RTB). Full incorporation of the IMD system capabilities will allow rapid transition from the current costly philosophies of the 70s to today's cost wise initiatives and concepts. Lessons learned from this effort were incorporated into the solicitation for the fleet wide IMD effort with CH/MH-53E aircraft designated as the lead platforms. IMD produces the aircraft interface required to implement Military Flight Operations Quality Assurance (MFOQA), a capability designed to provide hazard monitoring and mitigation. Additionally, IMDS includes support equipment for RTB, including Virtual Master Blade System (VMBS). Condition Based Maintenance (CBM) is hosted within the aircraft IMDS/Health and Usage Monitoring System (HUMS), intended to direct maintenance by predicting failures based on real-time assessment of equipment condition obtained from Integrated Mechanical Diagnostics System (IMDS) embedded sensors. CBM program includes software algorithm analysis for condition and health indicators of components, implementation of diagnostic/analysis tools, regime recognition, and information infrastructure. CBM will enable a reduction in spares and maintenance while increasing safety of flight.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The CH-53E IMDS successfully completed operational evaluation in October 2005. The Milestone Decision Authority approved full-rate production for CH-53E IMDS in December 2004. MH-53E Validation completed 1st Qtr FY11. The MH-53E Verification was completed 1st Qtr FY13. Advanced diagnostics enhancements and airframe structural life extension database interfaces are being incorporated to provide comprehensive platform operational and maintenance status awareness to the Squadron Commanders and key decision makers.

Notes:

1. CH-53E A-Kits - of the 149 procured, only 148 are installing. 1 is not installing due to mishap. Not included in this count are 5 installed kits that have been archived.
2. MH-53E Kits - of the 31 procured, 2 installed kits (OCO) have been archived, leaving 29 Kits - only 28 of the 29 are installing due to 1 mishap.
3. MH-53E aircraft availability delayed installations. Final installs to induct 1Q FY17.
4. CH-53E aircraft availability delayed installations of prior year kit buy. Final installs to induct 2Q FY16.
5. IMDS FY15-FY18 support costs are for IMDS configuration changes to provide continued system internet authority. CBM data will drive software changes for aging aircraft components.
6. Prior year QTY of 1 CH-53E and 2 MH-53E installs did not occur due to loss of aircraft.
7. CBM contract awards occur in FY14 and FY19.
8. FY18 CBM contract award rephased to ensure sufficient time between 10.0/3.0 software fleet implementation to gather data required for final software modification contract award.
9. To Complete funding provides appropriate levels of support for final software modification, testing and implementation.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 2 / INTEGRATED MECH DIAG (OSIP 007-98)

Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total	Modification Type: SAFETY, READINESS, AND MAINTAINABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: INTEGRATED MECH DIAG (OSIP 007-98)												
A Kits												
Recurring												
1.1.1) CH-53E A-Kits - NonOrganic ⁽²⁾	118 / 35.747	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	118 / 35.747
1.1.2) CH-53E A Kits (CONG) - NonOrganic	31 / 10.552	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 10.552
1.1.3) MH-53E Kits (A-kits) - NonOrganic ⁽³⁾	29 / 9.995	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 9.995
1.1.4) Archived A Kits OSIP 007-98 - Organic	10 / 5.441	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 5.441
Subtotal: Recurring	- / 61.735	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 61.735
B Kits												
Recurring												
2.1.1) CBM Installation Equipment - Organic	- / 6.931	- / -	- / 2.437	- / 2.828	- / -	- / 2.828	- / 1.843	- / 3.502	- / 1.051	- / 0.850	- / 0.536	- / 19.978
2.1.2) CBM Installation Equipment - Reserve - Organic	- / -	- / 1.528	- / 0.101	- / 0.221	- / -	- / 0.221	- / 0.077	- / 0.146	- / 0.044	- / 0.034	- / 0.025	- / 2.176
2.1.3) Archived B Kits - Organic	31 / 2.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 2.448
Subtotal: Recurring	- / 9.379	- / 1.528	- / 2.538	- / 3.049	- / -	- / 3.049	- / 1.920	- / 3.648	- / 1.095	- / 0.884	- / 0.561	- / 24.602
Subtotal: INTEGRATED MECH DIAG (OSIP 007-98)	219 / 71.114	- / 1.528	- / 2.538	- / 3.049	- / -	- / 3.049	- / 1.920	- / 3.648	- / 1.095	- / 0.884	- / 0.561	219 / 86.337
Subtotal: Procurement, All Modification Items	- / 71.114	- / 1.528	- / 2.538	- / 3.049	- / -	- / 3.049	- / 1.920	- / 3.648	- / 1.095	- / 0.884	- / 0.561	- / 86.337

Support (All Modification Items)

3.1) Engineering Change Orders	- / 0.217	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.217
3.2) Data	- / 1.443	- / -	- / 0.101	- / 0.241	- / -	- / 0.241	- / 0.242	- / 0.021	- / 0.020	- / 0.200	- / 0.010	- / 2.278
3.3) Data - Reserve	- / -	- / 0.143	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.143
3.4) Data (CONG)	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100
3.5) Software	- / 3.924	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.924
3.6) Software (CONG)	- / 2.667	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.667
3.7) Training Equipment	2 / 0.467	- / -	- / 0.153	- / 0.034	- / -	- / 0.034	- / 0.185	- / 0.008	- / 0.020	- / 0.150	- / -	2 / 1.017
3.8) Training Equipment - Reserve	- / -	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050
3.9) Support Equipment	- / 2.901	- / -	- / 0.023	- / 0.011	- / -	- / 0.011	- / 0.011	- / 0.005	- / -	- / -	- / -	- / 2.951
3.10) Condition Based Maint (CBM)	- / 2.922	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.922
3.11) ILS	- / 4.339	- / -	- / 0.333	- / 0.292	- / -	- / 0.292	- / 0.261	- / 0.123	- / 0.115	- / 0.100	- / 0.050	- / 5.613
3.12) ILS - Reserve	- / -	- / 0.332	- / 0.014	- / 0.012	- / -	- / 0.012	- / 0.011	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.384
3.13) Other Support - Reserve	- / -	- / 2.141	- / 0.055	- / 0.052	- / -	- / 0.052	- / 0.051	- / 0.039	- / 0.028	- / 0.020	- / 0.018	- / 2.404

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 2 / INTEGRATED MECH DIAG (OSIP 007-98)

Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total	Modification Type: SAFETY, READINESS, AND MAINTAINABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.14) Other Support	- / 56.127	- / -	- / 1.311	- / 1.235	- / -	- / 1.235	- / 1.215	- / 0.947	- / 0.672	- / 0.462	- / 0.461	- / 62.430
3.15) Other Support - OCO	- / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.045
3.16) Other Support (CONG)	- / 0.940	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.940
Subtotal: Support	- / 76.092	- / 2.666	- / 1.990	- / 1.877	- / -	- / 1.877	- / 1.976	- / 1.148	- / 0.860	- / 0.937	- / 0.539	- / 88.085
Installation												
Modification Item 1 of 1: INTEGRATED MECH DIAG (OSIP 007-98)	- / 16.424	- / 0.350	- / 0.165	- / 0.087	- / -	- / 0.087	- / -	- / -	- / -	- / -	- / -	- / 17.026
Subtotal: Installation	- / 16.424	- / 0.350	- / 0.165	- / 0.087	- / -	- / 0.087	- / -	- / -	- / -	- / -	- / -	- / 17.026
Total												
Total Cost (Procurement + Support + Installation)	163.630	4.544	4.693	5.013	-	5.013	3.896	4.796	1.955	1.821	1.100	191.448

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 2 / INTEGRATED MECH DIAG (OSIP 007-98)

Modification Item 1 of 1: INTEGRATED MECH DIAG (OSIP 007-98)

Manufacturer Information

Manufacturer Name: Goodrich-CH	Manufacturer Location: Vergennes, VT
Administrative Leadtime (in Months): 11	Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: Goodrich-MH	Manufacturer Location: Vergennes, VT
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: CONTRACTOR INSTALLED-FIELD MOD TEAM:: Installation Name: IMDS (OSIP 07-98) CH-53

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	146 / 13.028	- / -	2 / 0.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	148 / 13.193
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	146 / 13.028	- / -	2 / 0.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 13.193

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	146	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148
Out	146	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 2 / INTEGRATED MECH DIAG (OSIP 007-98)

Modification Item 1 of 1: INTEGRATED MECH DIAG (OSIP 007-98)

Installation Information

Method of Implementation: [none specified]:: Installation Name: MH-53E Kits (A-kits)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	25 / 3.396	2 / 0.350	- / -	1 / 0.087	- / 0.000	1 / 0.087	- / -	- / -	- / -	- / -	- / 0.000	28 / 3.833
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	25 / 3.396	2 / 0.350	- / -	1 / 0.087	- / -	1 / 0.087	- / -	- / -	- / -	- / -	- / -	28 / 3.833

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	25	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
Out	25	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28

Method of Implementation (Organic): Archived A Kits OSIP 007-98 - Not Installed **Installation Quantity:** 10

Method of Implementation (Organic): Archived B Kits - Not Installed **Installation Quantity:** 31

Footnotes:

- (2) CH-53E A-Kits QTY of 149, only 148 are actually installing. One is not installing due to mishap.
- (3) MH-53E Kits - of the 31 procured, 2 installed kits (OCO) have been archived, leaving 29 Kits - only 28 of the 29 are installing due to mishap. Included in the remaining 28 installs is 1 trainer kit (FY13).

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series						Modification Number / Title: 3 / NACELLES (OSIP 009-01)		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	26.583	8.991	7.092	1.162	-	1.162	8.785	3.678	2.786	6.007	0.436	65.520
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	26.583	8.991	7.092	1.162	-	1.162	8.785	3.678	2.786	6.007	0.436	65.520
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	26.583	8.991	7.092	1.162	-	1.162	8.785	3.678	2.786	6.007	0.436	65.520

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The CH/MH-53E No.1 & No. 3 engine Nacelles are a safety risk due to Things Falling Off Aircraft (TFOA). TFOA incidents risk damage to the aircraft, threaten aircrew safety, and could potentially impact personnel and/or property on the ground. To date, 84 TFOA events have occurred (12 in the last four years). Of the 84, 10 have impacted the tail rotor. New CH/MH-53E Nacelles incorporate improved material properties, design and positive locking/latching mechanisms to prevent TFOA. The procurement improves fleet safety and readiness.

DEVELOPMENT STATUS/MAJOR MILESTONES: Nacelles kit verification complete 1Q FY16.

Notes:

1. Due to increasing complexity of the effort, installs will be performed by contractor field mod team. Prior year installs were organic.
2. Backbone A kits is part of the CH/MH Nacelles kit buy (associated hardware that connects the Nacelle panel to the aircraft). Cost elements have been added due to substantial differences in kit costs - No New Start.
3. Total qty CH Nacelles kits is 151; total qty CH backbone kits is 148 for ease of installation, prior 3 installs completed without backbones.
4. NRE cost element and data funds added to support required NRE for final technical directive (TD)for Nacelles installations.
5. Production lead time for H-53 CH/MH backbone kits is 3 months; production lead time for CH/MH-53 kit is 21 months.
6. FY17 funds realigned to OSIP 10-05, 08-06, 10-08, and 31-12 to accelerate ERIP, KAPTON, DIRCM, SATCOM and CSU installs.
7. FY17 Other Support increases to support initial/ramp of CH-53E installations.

Current Active Modifications:

CH/MH-53E Nacelles Kits - Non-organic - installs for improved GKN Nacelles to incorporate design changes to improve reliability/rigidity.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 3 / NACELLES (OSIP 009-01)			
Models of Systems Affected: CH-53E(149), MH-53E(28), 177 TOTAL					Modification Type: MISSION/MISSION ENHANCEMENT					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: NACELLES (OSIP 009-01)</i>													
A Kits													
Recurring													
1.1.1) MH-53E Backbone A Kits - NonOrganic	- / -	- / -	- / -	17 / 0.170	- / -	17 / 0.170	4 / 0.041	3 / 0.031	- / -	- / -	- / -	24 / 0.242	
1.1.2) MH-53E Backbone A Kits - Reserve - NonOrganic	- / -	- / -	- / -	1 / 0.010	- / -	1 / 0.010	1 / 0.010	2 / 0.020	- / -	- / -	- / -	4 / 0.040	
1.1.3) CH-53E Backbone A Kits - NonOrganic ⁽⁴⁾	38 / 0.321	- / -	- / -	8 / 0.080	- / -	8 / 0.080	31 / 0.315	32 / 0.326	21 / 0.216	9 / 0.093	3 / 0.080	142 / 1.431	
1.1.4) CH-53E Backbone A Kits - Reserve - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.041	2 / 0.021	- / 0.020	6 / 0.082	
1.1.5) MH-53E Kit - NonOrganic	- / -	19 / 4.684	2 / 0.500	- / -	- / -	- / -	2 / 0.500	1 / 0.250	- / -	- / -	- / -	24 / 5.934	
1.1.6) MH-53E Kits - Reserve - NonOrganic	- / -	1 / 0.247	1 / 0.250	- / -	- / -	- / -	2 / 0.500	- / -	- / -	- / -	- / -	4 / 0.997	
1.1.7) CH-53E KITS - Organic	3 / 0.675	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.675	
1.1.8) CH-53E KITS (Nacelles) - NonOrganic ⁽⁵⁾	38 / 8.851	14 / 3.451	23 / 5.750	- / -	- / -	- / -	24 / 5.773	9 / 2.025	9 / 2.025	25 / 5.625	- / -	142 / 33.500	
1.1.9) CH-53E KITS - (Nacelles) Reserve - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.000	2 / 0.500	- / -	- / -	- / -	6 / 1.500	
1.1.10) Archived A Kits OSIP 09-01 - Organic	46 / 8.446	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 8.446	
Subtotal: Recurring	- / 18.293	- / 8.382	- / 6.500	- / 0.260	- / -	- / 0.260	- / 8.139	- / 3.152	- / 2.282	- / 5.739	- / 0.100	- / 52.847	
B Kits													
Non-Recurring													
2.1.1) Non-Recurring - Organic	- / 0.023	- / 0.010	- / 0.374	- / 0.282	- / -	- / 0.282	- / -	- / -	- / -	- / -	- / -	- / 0.689	
Subtotal: Non-Recurring	- / 0.023	- / 0.010	- / 0.374	- / 0.282	- / -	- / 0.282	- / -	- / -	- / -	- / -	- / -	- / 0.689	
Subtotal: NACELLES (OSIP 009-01)	125 / 18.316	34 / 8.392	26 / 6.874	26 / 0.542	- / -	26 / 0.542	68 / 8.139	49 / 3.152	34 / 2.282	36 / 5.739	3 / 0.100	401 / 53.536	
Subtotal: Procurement, All Modification Items	- / 18.316	- / 8.392	- / 6.874	- / 0.542	- / -	- / 0.542	- / 8.139	- / 3.152	- / 2.282	- / 5.739	- / 0.100	- / 53.536	
Support (All Modification Items)													
3.2) Data	- / 0.100	- / -	- / 0.055	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.155	
3.5) ILS	- / 0.223	- / -	- / 0.102	- / 0.063	- / -	- / 0.063	- / 0.060	- / 0.038	- / 0.038	- / 0.038	- / 0.038	- / 0.600	
3.6) ILS - Reserve	- / -	- / 0.084	- / 0.004	- / 0.004	- / -	- / 0.004	- / 0.004	- / -	- / -	- / -	- / -	- / 0.096	
3.7) Other Support	- / 7.944	- / 0.367	- / 0.052	- / 0.206	- / -	- / 0.206	- / 0.170	- / 0.090	- / 0.072	- / 0.060	- / -	- / 8.961	
3.8) Other Support - Reserve	- / -	- / 0.148	- / 0.005	- / 0.009	- / -	- / 0.009	- / 0.007	- / 0.004	- / -	- / -	- / -	- / 0.173	
Subtotal: Support	- / 8.267	- / 0.599	- / 0.218	- / 0.282	- / -	- / 0.282	- / 0.241	- / 0.132	- / 0.110	- / 0.098	- / 0.038	- / 9.985	
Installation													
Modification Item 1 of 1: NACELLES (OSIP 009-01)	- / 0.000	- / -	- / -	- / 0.338	- / -	- / 0.338	- / 0.405	- / 0.394	- / 0.394	- / 0.170	- / 0.298	- / 1.999	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 0.338	- / -	- / 0.338	- / 0.405	- / 0.394	- / 0.394	- / 0.170	- / 0.298	- / 1.999	
Total													

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 3 / NACELLES (OSIP 009-01)
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Models of Systems Affected: CH-53E(149), MH-53E(28), 177 TOTAL	Modification Type: MISSION/MISSION ENHANCEMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	26.583	8.991	7.092	1.162	-	1.162	8.785	3.678	2.786	6.007	0.436	65.520

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 3 / NACELLES (OSIP 009-01)

Modification Item 1 of 1: NACELLES (OSIP 009-01)

Manufacturer Information

Manufacturer Name: Sikorsky Aircraft Corp -MH Nacelles Manufacturer Location: Stratford, CT

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 21

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Aug 2015	Mar 2016		Dec 2017	Nov 2018	Oct 2019	
Delivery Dates	Dec 2017	Dec 2018		Sep 2019	Aug 2020	Jul 2021	

Manufacturer Name: Sikorsky Aircraft Corp - CH Nacelles Manufacturer Location: Stratford, CT

Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 21

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016		Jan 2018	Jan 2019	Jan 2020	
Delivery Dates	Oct 2016	Oct 2017		Oct 2019	Oct 2020	Oct 2021	

Manufacturer Name: Dial & Associates - MH Backbone kits Manufacturer Location: California, MD

Administrative Leadtime (in Months): 6 Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	
Delivery Dates			Sep 2017	Sep 2018	Sep 2019	Sep 2020	

Manufacturer Name: Dial & Associates- CH Backbone kits Manufacturer Location: California, MD

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Oct 2016	Oct 2017	Oct 2018	Oct 2019	
Delivery Dates			Jan 2017	Jan 2018	Jan 2019	Jan 2020	

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: MH-53 Installs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.140	6 / 0.060	- / -	- / -	- / -	20 / 0.200
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.030	- / -	- / -	- / -	3 / 0.030
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.017	4 / 0.005	- / -	- / -	- / -	18 / 0.022
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.026	2 / 0.020	- / -	- / -	9 / 0.046
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.014	2 / 0.002	- / -	- / -	6 / 0.016

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 3 / NACELLES (OSIP 009-01)

Modification Item 1 of 1: NACELLES (OSIP 009-01)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: MH-53 Installs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.157	24 / 0.135	4 / 0.022	- / -	- / -	56 / 0.314

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	18	18	-	-	6	2	-	-	2	-	-	-	-	-	-	56
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	18	18	-	-	6	2	-	-	2	-	-	-	-	-	-	56

Method of Implementation: Contractor Field Mod Team:: Installation Name: CH-53 Installs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	60 / 0.338	- / 0.000	60 / 0.338	16 / 0.090	- / -	- / -	- / -	- / 0.000	76 / 0.428
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.140	- / -	- / -	- / -	- / -	14 / 0.140
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 0.230	- / -	- / -	- / -	23 / 0.230
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.010	- / -	- / -	- / -	- / -	8 / 0.010
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.008	23 / 0.029	30 / 0.283	- / -	- / -	59 / 0.320
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.078	16 / 0.073	- / 0.017	43 / 0.168
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.011	12 / 0.094	13 / 0.016	34 / 0.121
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.003	34 / 0.261	36 / 0.264
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.004	3 / 0.004
Total	- / -	- / -	- / -	60 / 0.338	- / -	60 / 0.338	44 / 0.248	46 / 0.259	66 / 0.372	30 / 0.170	50 / 0.298	296 / 1.685

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 3 / NACELLES (OSIP 009-01)
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Modification Item 1 of 1: NACELLES (OSIP 009-01)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: CH-53 Installs

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	14	14	16	16	18	18	8	-	-	18	18	10	16	18	18	14	12	-	-	18	50	296
Out	-	-	-	-	-	-	-	-	-	14	14	16	16	18	18	8	-	-	18	18	10	16	18	18	14	12	-	-	18	50	296

Method of Implementation (Organic): CH-53E KITS	Installation Quantity: 3
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Method of Implementation (Organic): Archived A Kits OSIP 09-01	Installation Quantity: 46
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Footnotes:

⁽⁴⁾ Due to substantial differences in production lead times, Nacelles backbone kit procurement has delayed until FY17. QTY 1 Kit in FY14 is installing for Val/Ver.

⁽⁵⁾ prior year kits were installed organically

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Exhibit P-3a, Individual Modification: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 4 / H-53 ERIP (OSIP 010-05)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	178.351	2.586	2.836	2.858	-	2.858	2.251	1.389	1.420	1.420	1.608	194.719
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	178.351	2.586	2.836	2.858	-	2.858	2.251	1.389	1.420	1.420	1.608	194.719
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	178.351	2.586	2.836	2.858	-	2.858	2.251	1.389	1.420	1.420	1.608	194.719

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The T64 Engine Reliability Improvement Program (ERIP) upgrades top age related engine degraders, fatigue limiters, and performance degradation on the T64 engine. A concentrated effort is to upgrade the T64-416 engines to the T64-416A configuration by replacing components of the engine with improved hardware designs to increase reliability and reduce logistical requirements by conforming to one configuration. T64 engines will be modified to incorporate titanium nitride-coated compressor airfoils. Titanium nitride coating provides significantly improved durability and reliability for operation in austere environments. Degraded and obsolete peculiar support equipment will also be improved.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: 416 of 460 engines have been upgraded from the T64-416 to T64-416A configuration. T64-416A upgrade kits procured with FY04 Title IX Supplemental funding began installs in FY05. T64-416 and -416A engines began incorporating titanium nitride in FY04. T64-419 engines began incorporating titanium nitride in FY06. T64-413 engines began incorporating titanium nitride in FY07, and were completed in FY11 when the FY11 United States Marine Corps Aviation Plan was released.

Notes:

1. Non-recurring installation cost identifies funding for T64 ERIP mods to be installed/implemented by Fleet Readiness Center (FRC) artisans. This cost consists of labor and consumable materials necessary to implement the various Accessory Changes and Powerplant Changes that make up the T64 ERIP. Fiscal Year quantities are based on FRC shop throughput, appropriate kit availability, and anticipated retrograde component availability.
2. All kit procurements have been completed. Deliveries and installs will continue throughout the FYDP.
3. The PPC-109 Rev B Technical directive was revised (from PPC-109 Rev A) and eliminates the requirement for APN funding. Install funds were realigned to support PPC-119.
4. The PPC-119 install schedule was revised in accordance with current FRC shop throughput, appropriate kit availability, and anticipated retrograde component availability.
5. Current installation cost is based on FRC input. Previous cost estimates were based on averaged ERIP kit installations; this included changes concurrent to engine overhaul and changes made by attrition, both at no cost.
6. The PPC-119 install schedule has been accelerated in FY16 by a qty of 38 and in FY17 by a qty of 35 installs due to reprioritization and realignment of program funds.

Current Active Modifications:

1. Power Plant Changes (PPC) 109 REV B KITS - Rev B converts 416 to 416A engine configuration; installs taking place at Cherry Point Depot as concurrent rework only (no-cost).
2. PPC-119 Kits procured as 419 Fuel Control Kits and Fuel Pump Kits will be installed to upgrade T64-416A engines to the T64-419 configuration by installing modified Main Fuel Controls, Main Fuel Pumps and Fuel Flow Dividers. Total QTY 642 were procured of which 522 will install due to 4 mishaps and qty 116 completed via concurrent re-work at Cherry Point Depot.
3. Starting in FY 15 the schedule does not reflect Prior year information for Reserves.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 4 / H-53 ERIP (OSIP 010-05)			
Models of Systems Affected: H-53 T64 Turbo-shaft engines					Modification Type: SAFETY, READINESS AND MAINTAINABILITY					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: H-53 ERIP (OSIP 010-05)</i>													
B Kits													
Recurring													
1.1.1) PPC-119/419 Fuel Control/Pump Kits - NonOrganic ⁽⁶⁾	603 / 3.126	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	603 / 3.126	
1.1.2) PPC-119/419 Fuel Control/Pump Kits - Reserve - NonOrganic	39 / 0.202	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 0.202	
1.1.3) ARCHIVED B KITS - Organic	4,221 / 141.431	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,221 / 141.431	
<i>Subtotal: Recurring</i>	- / 144.759	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 144.759	
<i>Subtotal: H-53 ERIP (OSIP 010-05)</i>	4,863 / 144.759	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,863 / 144.759	
<i>Subtotal: Procurement, All Modification Items</i>	- / 144.759	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 144.759	
Support (All Modification Items)													
2.2) Data	- / 1.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.005	
2.3) Training Equipment	- / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.004	
2.4) Training Equipment-OCO	- / 0.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.506	
2.5) Support Equipment	- / 5.829	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.829	
2.6) ILS	- / 0.300	- / 0.075	- / 0.055	- / 0.045	- / -	- / 0.045	- / 0.045	- / 0.040	- / 0.040	- / 0.133	- / 0.172	- / 0.905	
2.7) ILS - Reserve	- / -	- / 0.060	- / 0.050	- / 0.045	- / -	- / 0.045	- / 0.045	- / 0.045	- / 0.045	- / -	- / -	- / 0.290	
2.8) Other Support	- / 18.779	- / 0.046	- / 0.074	- / 0.075	- / -	- / 0.075	- / 0.075	- / 0.070	- / 0.076	- / 0.080	- / 0.234	- / 19.509	
2.9) Other Support - Reserve	- / -	- / 0.040	- / 0.050	- / 0.034	- / -	- / 0.034	- / 0.030	- / 0.029	- / 0.030	- / -	- / -	- / 0.213	
2.10) Other Support-OCO	- / 5.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.400	
<i>Subtotal: Support</i>	- / 31.823	- / 0.221	- / 0.229	- / 0.199	- / -	- / 0.199	- / 0.195	- / 0.184	- / 0.191	- / 0.213	- / 0.406	- / 33.661	
Installation													
<i>Modification Item 1 of 1: H-53 ERIP (OSIP 010-05)</i>	- / 1.769	- / 2.365	- / 2.607	- / 2.659	- / -	- / 2.659	- / 2.056	- / 1.205	- / 1.229	- / 1.207	- / 1.202	- / 16.299	
<i>Subtotal: Installation</i>	- / 1.769	- / 2.365	- / 2.607	- / 2.659	- / -	- / 2.659	- / 2.056	- / 1.205	- / 1.229	- / 1.207	- / 1.202	- / 16.299	
Total													
Total Cost (Procurement + Support + Installation)	178.351	2.586	2.836	2.858	-	2.858	2.251	1.389	1.420	1.420	1.608	194.719	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 4 / H-53 ERIP (OSIP 010-05)

Modification Item 1 of 1: H-53 ERIP (OSIP 010-05)

Manufacturer Information

Manufacturer Name: GE PPC-119	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 2

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: PPC119/419

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	184 / 1.769	62 / 2.365	62 / 2.607	62 / 2.659	- / 0.000	62 / 2.659	47 / 2.056	27 / 1.205	27 / 1.229	26 / 1.207	25 / 1.202	522 / 16.299
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	184 / 1.769	62 / 2.365	62 / 2.607	62 / 2.659	- / -	62 / 2.659	47 / 2.056	27 / 1.205	27 / 1.229	26 / 1.207	25 / 1.202	522 / 16.299

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	184	-	14	23	25	16	16	16	14	16	16	15	15	14	14	10	9	9	8	5	5	7	7	7	6	6	6	7	7	25	522
Out	184	-	14	23	25	16	16	16	14	16	16	15	15	14	14	10	9	9	8	5	5	7	7	7	6	6	6	7	7	25	522

Method of Implementation (Organic): ARCHIVED B KITS - Not Installed **Installation Quantity:** 4221

Footnotes:

⁽⁶⁾ Total QTY 642 (603 reg and 39 Reserves) were procured of which 522 will install due to 4 mishaps and qty 116 completed via concurrent re-work at Cherry Point Depot.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series				Modification Number / Title: 5 / H-53 SURVIVABILITY (OSIP 015-05) (formerly Medivac)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	139.213	0.385	-	-	-	-	-	-	-	-	4.382	143.980
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	139.213	0.385	-	-	-	-	-	-	-	-	4.382	143.980
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	139.213	0.385	-	-	-	-	-	-	-	-	4.382	143.980
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding effort is established for procurement and integration of survivability systems that will improve H-53 aircrew and passengers against hostile threats through more effective self-defense methods. The H-53 survivability strategy is to upgrade threat detection ability, increase countermeasure capability, reduce vulnerability, enhance situational awareness by communicating aircraft position to deconflict with friendly forces in the area of operation, and decrease vulnerability to battle damage by better developing protection for both the aircrew and critical components. This increased survivability will protect the H-53 during all aspects of its various missions; assault support, shipboard delivery of cargo, anti-mine warfare, casualty transport/Medivac, and heavy cargo transport.

Critical System Armor (CSA) provides armor protection to engines, gearbox, hydraulic systems and automatic flight control system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: CSA completed verification install 1Q FY15. Recurring installs commenced 4Q FY15. As of 15 Sep 2015 the TD was placed in abeyance due to current readiness challenges and time required for mod. Kits will be retained and priority of airframe kit installation will be re-assessed upon the completion of the CH-53E fleet reset.

Current Active Modifications:
CSA in abeyance.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 5 / H-53 SURVIVABILITY (OSIP 015-05) (formerly Medivac)

Models of Systems Affected: CH-53E(149), MH-53E(28), 177 Total	Modification Type: SAFETY, READINESS AND MAINTAINABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: H-53 SURVIVABILITY (OSIP 015-05) (formerly Medivac)</i>												
A Kits												
Recurring												
1.1.1) CH-53E CSA A Kits-OCO - NonOrganic ⁽⁷⁾	98 / 3.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	98 / 3.060
1.1.2) ARCHIVED A KITS - Organic	1,090 / 43.137	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,090 / 43.137
<i>Subtotal: Recurring</i>	<i>- / 46.197</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 46.197</i>
B Kits												
Recurring												
2.1.2) ARCHIVED B KITS - Organic	725 / 43.813	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	725 / 43.813
<i>Subtotal: Recurring</i>	<i>- / 43.813</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 43.813</i>
Non-Recurring												
2.2.1) SMFCD Non-Recurring - Organic	- / 0.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.040
<i>Subtotal: Non-Recurring</i>	<i>- / 0.040</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.040</i>
<i>Subtotal: H-53 SURVIVABILITY (OSIP 015-05) (formerly Medivac)</i>	<i>1,913 / 90.050</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>1,913 / 90.050</i>
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 90.050</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 90.050</i>
Support (All Modification Items)												
3.1) Engineering Change Orders	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050
3.3) Data	- / 0.996	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.996
3.4) Data - OCO	- / 0.867	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.867
3.6) Software - OCO	- / 1.154	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.154
3.7) Training Equipment	- / 0.693	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.693
3.8) Training Equipment - OCO	- / 5.867	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.867
3.9) Support Equipment	- / 0.320	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.320
3.10) ILS	- / 1.418	- / 0.157	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.575
3.11) ILS - OCO (CSA)	- / 0.275	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.275
3.12) Other Support	- / 18.352	- / 0.228	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.580
3.13) Other Support - OCO (CSA)	- / 2.446	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.446
3.14) Other Support - OCO (SMFCD)	- / 9.139	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.139
3.15) Interim Contractor Support	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.500

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 5 / H-53 SURVIVABILITY (OSIP 015-05) (formerly Medivac)

Models of Systems Affected: CH-53E(149), MH-53E(28), 177 Total	Modification Type: SAFETY, READINESS AND MAINTAINABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Support</i>	- / 143.077	- / 0.385	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 43.462
Installation												
<i>Modification Item 1 of 1:</i> H-53 SURVIVABILITY (OSIP 015-05) (formerly Medivac)	- / 6.086	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.382	- / 10.468
<i>Subtotal: Installation</i>	- / 6.086	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.382	- / 10.468
Total												
Total Cost (Procurement + Support + Installation)	139.213	0.385	-	-	-	-	-	-	-	-	4.382	143.980

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 5 / H-53 SURVIVABILITY (OSIP 015-05) (formerly Medivac)

Modification Item 1 of 1: H-53 SURVIVABILITY (OSIP 015-05) (formerly Medivac)

Manufacturer Information

Manufacturer Name: Lockheed Martin-CSA	Manufacturer Location: Lexington, KY
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 5

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 SURVIVABILITY (OSIP 15-05) formerly Medivac (CSA)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	3 / 6.086	6 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	89 / 4.382	98 / 10.468
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3 / 6.086	6 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	89 / 4.382	98 / 10.468

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	3	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89	98
Out	3	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89	98

Method of Implementation (Organic): ARCHIVED A KITS **Installation Quantity:** 1090

Method of Implementation (Organic): ARCHIVED B KITS - Not Installed **Installation Quantity:** 725

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 5 / H-53 SURVIVABILITY (OSIP 015-05) (formerly Medivac)

Footnotes:

⁽⁷⁾ CSA kit quantity/installs being procured with FY12 OCO and will complete in FY17.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series			Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	239.657	12.510	13.205	14.423	-	14.423	5.973	5.070	6.684	4.913	93.821	396.256
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	239.657	12.510	13.205	14.423	-	14.423	5.973	5.070	6.684	4.913	93.821	396.256
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	239.657	12.510	13.205	14.423	-	14.423	5.973	5.070	6.684	4.913	93.821	396.256
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The H-53 aircraft is planned to be in service through Calendar Year 2029. The H-53 Aircraft Sustainment Strategy targets initiatives to remedy the top maintenance degraders, fatigue life limiters, and safety issues that impede the aircraft's ability to operate into the future. This program implements mitigations to H-53 component obsolescence structural limitations; landing gear, dynamic components, missions systems, life support, wiring improvements to aircrew safety and all other components required to fly the H-53E Fleet sustainment support in an affordable manner will continue until the H-53K becomes available.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The H-53 Sustainment Program Acquisition Strategy was approved by Program Executive Office (Aircraft) in December 2013 to be executed as one Abbreviated Acquisition Program (AAP) for Automatic Flight Control System (AFCS) and multiple independent projects related to safety, obsolescence, readiness and fatigue of all aircraft systems (e.g., fuel, rotor, drive, landing gear, electrical, hydraulic, lighting, tow, flight control, communication/navigation, pitot/static and cockpit instrumentation). Outside of the AFCS AAP, each year of the program involves non-recurring engineering (NRE) on some projects, leading to production and installation in out-years. Other projects require little or no NRE and can be acquired and installed quickly during routine maintenance.

Notes:

1. Kapton kits are comprised of multiple harnesses. A Kapton Harnesses line has been added to account for the replacement of missing/broken/damaged harnesses required to complete Kapton kits. To limit fleet aircraft downtime for replacement of Kapton wiring, each install was broken into 3 chronological phases. Phase 1 is complete; Phase II and Phase III install average unit cost are \$175K and \$260K respectively due to complexity of install. All FY17 remaining Kapton installs are Phase III at an estimated cost of \$260K each.
2. The Arc Fault Circuit Breakers (REV 1) - QTY 179 line was added to install replacement circuit breaker kits provided by the manufacturer at no cost to the government; Installs began in FY14. Increase in hours required to install AFCB discovered during verification process; subsequent unit cost increase reflected.
3. AYC 1406 Tail Rotor Drive Shaft added; QTY 37 previously archived; Remaining QTY 104 were procured under obsolescence components, of which 29 installed. QTY 75 will install through FY18.
4. SBU-29A Gyros added as a readiness issue to improve reliability and Mean Time Between Failures (MTBF). There are 6 units per aircraft.
5. In FY15, funding for Marine Air Wing and Reserve aircraft were realigned to reflect accurate distribution of funds.
6. #2 Engine Fire Prevention Kits procurement delayed until FY18 due to delay in RDTE prototype efforts.
7. FY15 ECO's required for EAPS and AFCB kits.
8. Ice detector is no longer a fleet requirement for the H-53 aircraft.

Current Active Modifications:

Aircrew Cooling-NonOrganic - installation of mini cooling units in the H-53E cabin to mitigate heat stress for aircrew. Total QTY 152 installs for CH-53 aircraft will complete in FY18.

H-53 Helicopter Emergency Egress Lighting System (HEELS) - installation of a self-contained, fiber formed electro-luminescent technology that lights escape paths for crew/passengers to maintain orientation in the event of a mishap.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)
<p>Arc Fault Circuit Breaker (REV 1) (AFCB REV 1)-NonOrganic - to replace legacy circuit breakers with modernized solid-state electronic circuit breakers to reduce the potential for electrical arcing and inflight fires.</p> <p>Kapton Replacement Wiring Kits - Replaces deficient legacy wiring throughout the H-53E cabin. The Kapton wiring was discovered to rapidly degrade, particularly in the maritime environment in which naval aircraft operate. Kapton wiring has been cited as a causal factor for over 100 documented incidents of electrical malfunctions and fires, most recently 15 April 2015.</p> <p>Future Modifications: Ice Detector SBU-29A Gyros Soundproofing Retention Kits-Organic Engine Start Valve kits</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)

Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total	Modification Type: MISSION/PERFORMANCE SUSTAINMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)

A Kits												
Recurring												
1.1.1) CH-53Aircrew Cooling OCO - NonOrganic	152 / 1.199	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	152 / 1.199
1.1.2) Engine Start Valve Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	180 / 0.550
1.1.3) #2 Engine Fire Prevention Kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.755	18 / 0.990	30 / 1.874	36 / 2.340	62 / 4.154	163 / 10.113
1.1.4) #2 Engine Fire Prevention Kits - Reserve - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.871
1.1.5) H-53 HEELS Rev-A - NonOrganic	146 / 0.102	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	146 / 0.102
1.1.6) H-53 HEELS Rev-A - Reserve - NonOrganic	6 / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.004
1.1.7) H-53 HEELS A1 and A3 replacement kits - NonOrganic ⁽⁸⁾	12 / 0.103	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.103
1.1.8) Kapton Wiring Kits (H-53) - NonOrganic ⁽⁹⁾	170 / 20.740	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 20.740
1.1.9) Kapton Wiring Kits (H-53) - Reserve - NonOrganic	- / -	- / -	1 / 0.143	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.143
1.1.10) Kapton Harness Replacement Parts - Organic	230 / 4.452	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	230 / 4.452
1.1.11) Obsolescent Components (H-53) - NonOrganic	139 / 4.033	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	174 / 22.403
1.1.12) AYC 1406 Tail Rotor Drive Shaft A Kits - NonOrganic	75 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / -
1.1.13) ARCHIVED A KITS - Organic	1,343 / 73.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,343 / 73.072
Subtotal: Recurring	- / 103.705	- / -	- / 0.143	- / -	- / -	- / -	- / 0.755	- / 0.990	- / 1.874	- / 2.340	- / 27.978	- / 137.785
Non-Recurring												
1.2.1) Installation Kits (including Automatic Flight Control System) - Organic	- / 35.322	- / 3.097	- / 2.514	- / 2.240	- / -	- / 2.240	- / 1.878	- / 1.325	- / 1.722	- / 0.726	- / 5.514	- / 54.338
1.2.2) Non-Recurring Engineering - Reserve (including AFCS) - Organic	- / -	- / 0.539	- / 0.099	- / 0.106	- / -	- / 0.106	- / 0.110	- / 0.110	- / 0.110	- / 0.100	- / -	- / 1.174
1.2.3) Installation Kits (OCO) - Organic	- / 3.926	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.926
Subtotal: Non-Recurring	- / 39.248	- / 3.636	- / 2.613	- / 2.346	- / -	- / 2.346	- / 1.988	- / 1.435	- / 1.832	- / 0.826	- / 5.514	- / 59.438
B Kits												
Recurring												
2.1.1) Arc Fault Circuit Breaker REV 1 (H-53) - NonOrganic	13 / 0.000	24 / -	25 / -	40 / -	- / -	40 / -	38 / -	26 / -	- / -	- / -	- / -	166 / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)

Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total	Modification Type: MISSION/PERFORMANCE SUSTAINMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.1.2) Arc Fault Circuit Breaker REV 1 (H-53) Reserve - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / -	- / -	- / -	- / -	11 / -
2.1.3) Safety/Readiness Improvement Kits - Organic	6 / 0.607	- / -	1 / 0.184	4 / 0.743	- / -	4 / 0.743	- / -	- / -	- / -	- / -	170 / 6.525	181 / 8.059
2.1.4) Soundproofing Retention Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	164 / 8.350	164 / 8.350
2.1.5) Soundproofing Retention Kits - Reserve - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.650	13 / 0.650
2.1.6) SBU-29A Gyros B kit - Organic	- / -	- / -	212 / 0.514	720 / 1.867	- / -	720 / 1.867	- / -	- / -	- / -	- / -	200 / 0.515	1,132 / 2.896
2.1.7) ARCHIVED B KITS - Organic	4,175 / 18.443	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,175 / 18.443
Subtotal: Recurring	- / 19.050	- / -	- / 0.698	- / 2.610	- / -	- / 2.610	- / -	- / -	- / -	- / -	- / 16.040	- / 38.398
Non-Recurring												
2.2.1) Installation Cost - Prior Year - Organic	- / 3.552	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.552
2.2.2) Installation Equipment - Organic	- / 0.125	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.125
Subtotal: Non-Recurring	- / 3.677	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.677
Subtotal: H-53 A/C SUSTAINMENT (OSIP 008-06)	6,467 / 165.680	24 / 3.636	239 / 3.454	764 / 4.956	- / -	764 / 4.956	55 / 2.743	55 / 2.425	30 / 3.706	36 / 3.166	976 / 49.532	8,646 / 239.298
Subtotal: Procurement, All Modification Items	- / 165.680	- / 3.636	- / 3.454	- / 4.956	- / -	- / 4.956	- / 2.743	- / 2.425	- / 3.706	- / 3.166	- / 49.532	- / 239.298

Support (All Modification Items)												
3.1) Engineering Change Orders	- / -	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300
3.2) Data - OCO	- / 0.512	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.512
3.3) Data	- / 1.287	- / -	- / 0.150	- / 0.387	- / -	- / 0.387	- / 0.230	- / 0.100	- / 0.237	- / 0.100	- / 4.831	- / 7.322
3.4) Data - Reserve	- / -	- / -	- / 0.106	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / 0.020	- / 0.526
3.5) Training Equipment	6 / 0.030	- / -	- / 0.015	- / 0.017	- / -	- / 0.017	- / 0.018	- / 0.020	- / 0.020	- / 0.020	- / -	6 / 0.140
3.6) Support Equipment	104 / 1.605	- / 0.206	- / 0.020	- / 0.008	- / -	- / 0.008	- / -	- / -	- / -	- / -	- / 0.850	104 / 2.689
3.7) ILS	- / 5.848	- / -	- / 0.640	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.260	- / 0.360	- / 0.150	- / 4.131	- / 12.389
3.8) ILS - Reserve	- / -	- / 0.913	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.050	- / 0.100	- / 0.069	- / -	- / 1.432
3.9) Other Support	- / 145.413	- / 1.967	- / 1.826	- / 2.172	- / -	- / 2.172	- / 1.900	- / 1.219	- / 1.500	- / 0.663	- / 15.938	- / 72.598
3.10) Other Support - Reserve	- / -	- / 1.817	- / 0.200	- / 0.151	- / -	- / 0.151	- / 0.150	- / 0.150	- / 0.150	- / 0.100	- / 15.900	- / 18.618
3.11) Other Support - OCO	- / 1.702	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.702
3.12) Interim Contractor support	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.270
Subtotal: Support	- / 56.667	- / 5.203	- / 3.057	- / 3.435	- / -	- / 3.435	- / 2.998	- / 1.899	- / 2.467	- / 1.122	- / 41.650	- / 118.498

Installation												
Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)	- / 17.310	- / 3.671	- / 6.694	- / 6.032	- / -	- / 6.032	- / 0.232	- / 0.746	- / 0.511	- / 0.625	- / 2.639	- / 38.460
Subtotal: Installation	- / 17.310	- / 3.671	- / 6.694	- / 6.032	- / -	- / 6.032	- / 0.232	- / 0.746	- / 0.511	- / 0.625	- / 2.639	- / 38.460

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)

Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total	Modification Type: MISSION/PERFORMANCE SUSTAINMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total												
Total Cost (Procurement + Support + Installation)	239.657	12.510	13.205	14.423	-	14.423	5.973	5.070	6.684	4.913	93.821	396.256

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0528 / H-53 Series		Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)		
Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)							
Manufacturer Information							
Manufacturer Name: Carleton Tech, Inc-Aircrew Cooling Kits				Manufacturer Location: Orchard Park, NY			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: SOFSA-KaptonWiring				Manufacturer Location: Lexington, KY			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 11			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Aug 2016					
Delivery Dates		Jul 2017					
Manufacturer Name: Sikorsky Aircraft Corp-Obsolescent Components				Manufacturer Location: Stratford, CT			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 1			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: L-3-HEELS Rev A				Manufacturer Location: Bluegrass, KY			
Administrative Leadtime (in Months): 11				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Sikorsky Aircrat Corp - Eng Fire Prevention				Manufacturer Location: Stratford, CT			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 4			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Nov 2017	Nov 2018	Nov 2019	Nov 2020
Delivery Dates				Feb 2018	Feb 2019	Feb 2020	Feb 2021
Manufacturer Name: Eaton - AFCB REV 1				Manufacturer Location: Sarasota, FL			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 1			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014				Nov 2018		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)

Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)

Manufacturer Information

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Delivery Dates	Dec 2014				Dec 2018		
Manufacturer Name: Commanding Officer Cherry Point Naval Air Depot - AYC 1406 Tail Rotor Drive Shaft A Kits				Manufacturer Location: Cherry Point, NC			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Aircrew Cooling

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	118 / 0.807	11 / 0.057	10 / 0.076	10 / 0.081	- / 0.000	10 / 0.081	3 / 0.026	- / -	- / -	- / -	- / 0.000	152 / 1.047
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	118 / 0.807	11 / 0.057	10 / 0.076	10 / 0.081	- / -	10 / 0.081	3 / 0.026	- / -	- / -	- / -	- / -	152 / 1.047

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	118	-	-	-	11	2	2	3	3	2	2	3	3	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	118	-	-	-	11	2	2	3	3	2	2	3	3	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)

Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)

Installation Information

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Engine Fire Prevent

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.284	- / -	- / -	- / -	17 / 0.284
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.300	- / -	- / -	- / -	18 / 0.300
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.511	- / -	- / -	30 / 0.511
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.625	- / -	36 / 0.625
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 1.329	75 / 1.329
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.584	30 / 0.511	36 / 0.625	75 / 1.329	176 / 3.049

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	8	9	9	-	10	10	10	-	12	12	12	75	176
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	8	9	9	-	10	10	10	-	12	12	12	75	176

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Helicopter Emergenc

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	64 / 0.062	47 / 0.117	33 / 0.021	20 / 0.020	- / 0.000	20 / 0.020	- / -	- / -	- / -	- / -	- / 0.000	164 / 0.220
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	64 / 0.062	47 / 0.117	33 / 0.021	20 / 0.020	- / -	20 / 0.020	- / -	- / -	- / -	- / -	- / -	164 / 0.220

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)

Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)

Installation Information

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Helicopter Emergenc

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot									
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4											
In	64	-	1	8	38	8	9	8	8	5	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164
Out	64	-	1	8	38	8	9	8	8	5	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Kapton Wiring

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	99 / 14.785	20 / 3.395	30 / 6.454	21 / 5.492	- / 0.000	21 / 5.492	- / -	- / -	- / -	- / -	- / 0.000	170 / 30.126
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	1 / 0.228	- / -	1 / 0.228	- / -	- / -	- / -	- / -	- / -	1 / 0.228
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	99 / 14.785	20 / 3.395	30 / 6.454	22 / 5.720	- / -	22 / 5.720	- / -	- / -	- / -	- / -	- / -	171 / 30.354

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot							
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4									
In	99	4	4	4	8	8	8	7	7	6	5	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	171
Out	99	4	4	4	8	8	8	7	7	6	5	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	171

Method of Implementation: [none specified]:: Installation Name: Obsolescent Components (H-53)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	139 / 1.590	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	139 / 1.590

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)

Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Obsolescent Components (H-53)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	174 / 1.310	174 / 1.310
Total	139 / 1.590	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	174 / 1.310	313 / 2.900

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	174	313
Out	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	174	313

Method of Implementation: [none specified]:: Installation Name: AYC 1406 Tail Rotor Drive Shaft A Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	8 / 0.011	1 / 0.002	20 / 0.040	20 / 0.040	- / 0.000	20 / 0.040	26 / 0.045	- / -	- / -	- / -	- / 0.000	75 / 0.138
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	8 / 0.011	1 / 0.002	20 / 0.040	20 / 0.040	- / -	20 / 0.040	26 / 0.045	- / -	- / -	- / -	- / -	75 / 0.138

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0528 / H-53 Series
		Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)

Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)

Installation Information

Method of Implementation: [none specified]:: Installation Name: AYC 1406 Tail Rotor Drive Shaft A Kits

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot							
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4									
In	8	1	-	-	-	5	5	5	5	5	5	5	5	7	7	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75
Out	8	1	-	-	-	5	5	5	5	5	5	5	5	7	7	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Arc Fault Circuit B

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	13 / 0.055	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	13 / 0.055
FY 2015	- / -	24 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.100
FY 2016	- / -	- / -	25 / 0.103	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.103
FY 2017	- / -	- / -	- / -	40 / 0.171	- / -	40 / 0.171	- / -	- / -	- / -	- / -	- / -	40 / 0.171
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.161	- / -	- / -	- / -	- / -	38 / 0.161
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 0.162	- / -	- / -	- / -	37 / 0.162
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	13 / 0.055	24 / 0.100	25 / 0.103	40 / 0.171	- / -	40 / 0.171	38 / 0.161	37 / 0.162	- / -	- / -	- / -	177 / 0.752

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	13	6	6	6	6	6	6	6	7	10	10	10	10	10	10	9	9	10	10	9	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177
Out	13	6	6	6	6	6	6	6	7	10	10	10	10	10	10	9	9	10	10	9	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177

Method of Implementation (Organic): Engine Start Valve Kits **Installation Quantity:** 180

Method of Implementation (Organic): Kapton Harness Replacement Parts **Installation Quantity:** 230

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / H-53 A/C SUSTAINMENT (OSIP 008-06)

Modification Item 1 of 1: H-53 A/C SUSTAINMENT (OSIP 008-06)

Installation Information

Method of Implementation (Organic): ARCHIVED A KITS - Not Installed	Installation Quantity: 1343
Method of Implementation (Organic): Safety/Readiness Improvement Kits	Installation Quantity: 181
Method of Implementation (Organic): Soundproofing Retention Kits - Not Installed	Installation Quantity: 164
Method of Implementation (Organic): Soundproofing Retention Kits - Reserve - Not Installed	Installation Quantity: 13
Method of Implementation (Organic): SBU-29A Gyros B kit	Installation Quantity: 1132
Method of Implementation (Organic): ARCHIVED B KITS - Not Installed	Installation Quantity: 4175

Footnotes:

⁽⁸⁾ 12 HEELS A1 and A3 kits were shipped to Iraq. They entire shipment was lost in theater. These additional kits are required to complete installs with Rev A. There are being installed simultaneously with the Rev A Kit.

⁽⁹⁾ FY17 Kapton install unit cost reflects higher than prior fiscal years as all FY17 installs are Phase III, the most complex of the three phases.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series			Modification Number / Title: 7 / DIRCM (OSIP 010-08)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	205.405	0.970	0.354	0.985	-	0.985	-	-	1.197	0.921	-	209.832
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	205.405	0.970	0.354	0.985	-	0.985	-	-	1.197	0.921	-	209.832
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	205.405	0.970	0.354	0.985	-	0.985	-	-	1.197	0.921	-	209.832

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Currently, the H-53 is only integrated with Infrared (IR) detection equipment and rudimentary countermeasure flares. This funding is for Engineering Change Proposal (ECP) development, A-kit procurement and installation of a Direct Infrared Counter Measure (DIRCM) system for H-53s. This system will help protect the H-53 which is highly susceptible to IR seeking Man-Portable Air Defense System (MANPADS), the weapon of choice in all current theaters. This system has been found effective against fourth generation IR MANPADS, and is extremely effective against earlier generation MANPADS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Non-Recurring Engineering (NRE) for the CH-53E began in May 07 and concluded with a completed and verified Technical Directive in early FY09. Test and Evaluation for the CH-53E began with risk-reduction testing in April 08 and concluded with Initial Operational Test and Evaluation (IOT&E) in late FY09. Critical to early fielding was the Quick reaction assessment, completed in August 08 which led to an Early Operational Capability (EOC) decision in November 08. Validation and verification were conducted for the CH-53E between May - September 08. Non-Recurring engineering for the CH-53D began in May 08 and concluded with a completed and verified TD in early FY10. The FY11 United States Marine Corps Aviation Plan was released in October 2010 and called for the early retirement of the CH-53D. Development and deployment of the DIRCM system on the CH-53D system was subsequently suspended and the remaining funding was realigned to other priorities consistent with Headquarters Marine Corps direction. DIRCM is being procured as a mission kit by PMA-272. CH-53Es must be modified with an A-kit to accept the mission kit.

Notes:

- Total QTY (161) reflects 151 CH-53E DIRCM baseline kits, (2) maintenance trainers and (8) operational trainers.
- CH-53 (DIRCM Rev-A) A-kits QTY (153) are a revision to an existing kit.
- Program priorities defer remaining QTY (46) CH-53 (DIRCM Rev-A) A kit installs to FY20 and FY21.
- DIRCM basic and Rev A installs differ substantially in cost. Fluctuations in install costs are based on the qty of basic installs as compared to the qty of Rev A installs required that year.
- QTY 5 Rev A installs accelerated to FY16 as a readiness reprioritization/realignment of program funds.
- QTY 37 (1 Basic and 36 Rev A) installs accelerated to FY17 as a readiness reprioritization/realignment of program funds.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 7 / DIRCM (OSIP 010-08)			
Models of Systems Affected: CH-53E (149), 149 Total				Modification Type: MISSION/PERFORMANCE SUSTAINMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: DIRCM (OSIP 010-08)													
A Kits													
Recurring													
1.1.1) CH-53E Kits OCO - NonOrganic	54 / 5.483	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 5.483	
1.1.2) CH-53E (Rev-A) A-kits OCO - NonOrganic	147 / 2.771	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	147 / 2.771	
1.1.3) CH-53E (Rev-A) A Kits OCO - Reserve - NonOrganic	6 / 0.113	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.113	
1.1.4) Archived A Kits OSIP 10-08 - Organic	- / 44.881	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.881	
Subtotal: Recurring	- / 53.248	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 53.248	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	3 / 5.775	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.775	
Subtotal: Non-Recurring	- / 5.775	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.775	
B Kits													
Recurring													
2.1.1) Archived B Kits - Organic	223 / 108.490	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	223 / 108.490	
Subtotal: Recurring	- / 108.490	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 108.490	
Subtotal: DIRCM (OSIP 010-08)	433 / 167.513	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	433 / 167.513	
Subtotal: Procurement, All Modification Items	- / 167.513	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 167.513	
Support (All Modification Items)													
3.2) Data	- / 1.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.225	
3.3) Training Equipment	- / 0.335	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.335	
3.4) Training Equipment-OCO	- / 0.999	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.999	
3.6) ILS	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.000	
3.7) ILS-OCO	- / 0.234	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.234	
3.8) Other Support	- / 14.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.112	
3.9) Other Support-OCO	- / 9.541	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.541	
3.10) Interim Contractor Support	- / 6.041	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.041	
Subtotal: Support	- / 34.487	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.487	
Installation													
Modification Item 1 of 1: DIRCM (OSIP 010-08)	- / 3.405	- / 0.970	- / 0.354	- / 0.985	- / -	- / 0.985	- / -	- / -	- / 1.197	- / 0.921	- / -	- / 7.832	
Subtotal: Installation	- / 3.405	- / 0.970	- / 0.354	- / 0.985	- / -	- / 0.985	- / -	- / -	- / 1.197	- / 0.921	- / -	- / 7.832	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 7 / DIRCM (OSIP 010-08)			
Models of Systems Affected: CH-53E (149), 149 Total					Modification Type: MISSION/PERFORMANCE SUSTAINMENT					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Total													
Total Cost (Procurement + Support + Installation)		205.405	0.970	0.354	0.985	-	0.985	-	-	1.197	0.921	-	209.832

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 7 / DIRCM (OSIP 010-08)

Modification Item 1 of 1: DIRCM (OSIP 010-08)

Manufacturer Information

Manufacturer Name: Northrop Grumman-DIRCM	Manufacturer Location: Rolling Meadows, IL
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: DIRCM (OSIP 010-08)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	84 / 3.405	26 / 0.970	14 / 0.354	37 / 0.985	- / 0.000	37 / 0.985	- / -	- / -	26 / 1.197	20 / 0.921	- / 0.000	207 / 7.832
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	84 / 3.405	26 / 0.970	14 / 0.354	37 / 0.985	- / -	37 / 0.985	- / -	- / -	26 / 1.197	20 / 0.921	- / -	207 / 7.832

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	84	6	7	7	6	4	4	4	2	9	9	9	10	-	-	-	-	-	-	-	-	7	7	7	5	7	6	4	3	-	207
Out	84	6	7	7	6	4	4	4	2	9	9	9	10	-	-	-	-	-	-	-	-	7	7	7	5	7	6	4	3	-	207

Method of Implementation (Organic): Installation Kits N/R - Not Installed **Installation Quantity:** 3

Method of Implementation (Organic): Archived B Kits - Not Installed **Installation Quantity:** 223

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series						Modification Number / Title: 8 / H-53 AVIONICS (OSIP 031-12)			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	16.621	6.148	7.815	21.654	-	21.654	11.654	11.214	20.424	22.014	76.425	193.969
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	16.621	6.148	7.815	21.654	-	21.654	11.654	11.214	20.424	22.014	76.425	193.969
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	16.621	6.148	7.815	21.654	-	21.654	11.654	11.214	20.424	22.014	76.425	193.969

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) will fund avionics systems for the H-53 helicopter. The H-53 strategy is to address safety, survivability, system obsolescence, and avionics deficiencies that require correction to maintain platform relevance on an increasingly networked battlefield. Specifically, this OSIP addresses Critical Survivability Upgrade (CSU), Satellite Communications (SATCOM), Smart Multifunctional Color Display (SMFCD) for the CH-53E, and Critical Avionics Upgrade (CAU) integrations/installations for the MH-53E. Additionally CSU NRE for OFP software modification partially supports Identify Friend or Foe (IFF) Mode 5 and Mode S integration for the APX-123 Common Transponder integration.

CSU leverages the aircraft state, rate, and acceleration data available through integration of the H764G (Embedded Global Positioning System/Inertial Navigation System)(EGI) and development of improved hover symbology providing the Phase I Degraded Visual Environment solution. The CSU program also provides the basis for the installation of the APX-123 Transponder to meet Mode 5 Initial Operational Capability (IOC) requirements. Non-recurring engineering efforts in FY17 are to upgrade the MH-53E antiquated cockpit with critical required safety and avionics upgrades, providing increased Situational Awareness and mission efficiency with minefield, Blue Force Tracker (BFT), Area Navigation (RNAV), map and hover displays. Commencing in FY16 is kit procurements for the MH EGI that will allow the MH-53E to utilize the full capability of the APX-23 transponder.

This funding provides for the integration of cockpit avionics with Aircraft Survival Equipment (ASE) to provide time critical data to other battlefield users in order to more rapidly prosecute threats. Smart Multi-Function Color Display (SMFCD), CSU, BFT, and SATCOM have transitioned from various OSIPs into Avionics. This funding effort seeks to meet requirements, and eliminate avionics and ASE related system level deficiencies and safety hazards with the above described improvements, as well as ensuring that all H-53 aircraft are equipped with a full complement of ASE required to operate on the modern networked battlefield. This budget funds installation of Satellite Communications (SATCOM) that meet over the horizon communication requirements. SMFCD improves aircrew safety by reducing pilot workload/associated fatigue and increases aircrew situational awareness. SMFCD provides an integrated avionics suite that will facilitate safe landings in a degraded visual environment, modernize navigational equipment and enhance situational awareness with a joint single integrated air ground picture. SMFCD provides Brown Out Symbology Set (BOSS) display capability on the instrument panel in the pilot's primary field of view, allowing aircrews to land in dusty environments, and reducing the risk of Controlled Flight Into Terrain (CFIT) and resulting loss of life and aircraft. SMFCD provides a real time threat display for the Aircraft Survivability Equipment threat indications currently encountered, such as missiles, small arms, and lasers, overlaid on a real time moving map in the pilot's normal field of view, vice several federated systems scattered around the cockpit. SMFCD further increases safety by eliminating the kneeboard Electronic Display Module (EDM) which currently tethers the pilot (head down) to the aircraft, creating an egress hazard during emergency situations. Additionally, SMFCD is a form fit replacement for the current Forward Looking Infrared (FLIR) display and retains the full FLIR functionality. H-53 SMFCD moved to Avionics OSIP 31-12 as of FY14. SMFCD NRE will complete in FY16 with verification installs. Recurring installs will commence in FY17.

Future targeted improvements include, but are not limited to Aircraft Survival Equipment (ASE) upgrades (including state of the art APR-39 and AAR-47), 8.33 kHz channel frequency separation, Required Navigation Performance (RNP) / Area Navigation (RNAV) (RNP/RNAV) certification, Variable Message Format Revision D change 1 compliance, embedded Terrain Avoidance and Warning System (eTAWs) integration, Collision Avoidance System integration, Over-the-Horizon communications and Crash Survivable Flight Data Recorder, Digital Battlefield Interoperability. Safety related improvements include a mitigating solution for Controlled Flight Into Terrain risk when operating in DVE. Lastly, cockpit improvements are needed to provided better lighting, readability and reliability for visual warning systems.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 8 / H-53 AVIONICS (OSIP 031-12)
<p>DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: EGI development efforts and evaluation testing will complete in FY16 and kit procurements will commence. SMFCD verification will complete in FY16.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. CSU is comprised of BFT kits, SATCOM integration for 1851A radios, advanced digital antenna production, Heads Up Display (HUD) software, controlled display navigation unit and software upgrades in support of the DVE solution. Due to DVE solution being comprised of the above, installation of QTY 149 (due to 6 mishaps) plus 10 trainers, DVE A-kits procured in archived DVE OSIP 20-07 occurring simultaneously with BFT/CSU installs. Of the (159) installs, QTY (58) were installed in OSIP 15-05. Remaining installs QTY (101) will complete under Avionics OSIP 31-12. CSU total kit QTY (161). 2. SMFCD total kit QTY is 159. QTY (149) aircraft installs and (10) trainers. QTY (67) kits were procured under OSIP 15-05 in prior years of which 62 will be installed in this OSIP. QTY (92) will procure/install in Avionics OSIP 31-12. Trainers are not installed. 3. SATCOM total kit QTY 161 was procured in prior years under archived DVE OSIP 20-07. SATCOM REV A QTY 147 installs will be completed under OSIP 31-12. QTY 2 were completed under DVE OSIP 20-07. 4. Starting in FY 15 the schedule does not reflect Prior year information for Reserves. 5. FY17 other support increase relates to the ramp in fielding of SMFCD and EGI. FY18 other support increase directly correlates with beginning of MH-53E APR-39(V)2 and Critical Avionics Upgrade. 6. Adjusted SATCOM installs to align with aircraft availability; rates adjusted to reflect install costs OCONUS/CONUS. 7. CH-53E DVE kits/installs include 10 trainer kits. <p>Current Active Modifications: SMFCD A Kits - Non Organic SATCOM A Kits - Non Organic CSU A Kits - Non Organic MH EGI Kits - Non Organic</p> <p>Future Modifications: MH-53E APR-39D(V)2 A Kits - Non Organic MH-53E Critical Avionics Upgrade</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 8 / H-53 AVIONICS (OSIP 031-12)			
Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total					Modification Type: MISSION/PERFORMANCE SUSTAINMENT					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> H-53 AVIONICS (OSIP 031-12)													
A Kits													
Recurring													
1.1.1) SMFCD - NonOrganic ⁽¹⁰⁾	62 / 0.000	- / -	3 / 0.150	21 / 1.124	- / -	21 / 1.124	6 / 0.327	- / -	- / -	- / -	61 / 3.663	153 / 5.264	
1.1.2) SMFCD - Reserve - NonOrganic	- / -	- / -	- / -	6 / 0.321	- / -	6 / 0.321	- / -	- / -	- / -	- / -	- / -	6 / 0.321	
1.1.3) SATCOM - NonOrganic ⁽¹¹⁾	147 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	147 / -	
1.1.4) Critical Systems upgrade (CSU) - NonOrganic ⁽¹²⁾	95 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	95 / -	
1.1.5) Critical Systems Upgrade (CSU) - Reserve - NonOrganic	6 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / -	
1.1.6) MH EGI A Kits - NonOrganic	- / -	- / -	2 / 0.167	12 / 1.008	- / -	12 / 1.008	14 / 1.176	- / -	- / -	- / -	- / -	28 / 2.351	
1.1.7) MH-53E APR-39D(V)2 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.025	27 / 0.675	- / -	- / -	28 / 0.700	
1.1.8) Cockpit Avionics Upgrade (CAU) A Kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.903	9 / 2.070	9 / 2.124	6 / 1.225	28 / 6.322	
1.1.9) CH-53E DVE A kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.275	23 / 0.598	125 / 3.375	159 / 4.248	
Subtotal: Recurring	- / 0.000	- / -	- / 0.317	- / 2.453	- / -	- / 2.453	- / 1.503	- / 0.928	- / 3.020	- / 2.722	- / 8.263	- / 19.206	
Non-Recurring													
1.2.1) Installation Kit NRE - Organic	- / 3.297	- / 2.116	- / -	- / 1.091	- / -	- / 1.091	- / 1.809	- / 1.477	- / 1.442	- / 1.328	- / 3.136	- / 15.696	
Subtotal: Non-Recurring	- / 3.297	- / 2.116	- / -	- / 1.091	- / -	- / 1.091	- / 1.809	- / 1.477	- / 1.442	- / 1.328	- / 3.136	- / 15.696	
B Kits													
Recurring													
2.1.1) SMFCD B Kits - Organic	62 / 0.000	- / -	3 / 0.993	21 / 7.438	- / -	21 / 7.438	6 / 2.168	- / -	- / -	- / -	61 / 23.461	153 / 34.060	
2.1.2) SMFCD B Kits - Reserve - Organic	- / -	- / -	- / -	6 / 1.986	- / -	6 / 1.986	- / -	- / -	- / -	- / -	- / -	6 / 1.986	
2.1.3) CH-53 ARC-210 SATCOM Kit-OCO - Organic	40 / 1.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.600	
2.1.4) MH EGI B Kits - Organic	- / -	- / -	2 / 0.204	12 / 1.260	- / -	12 / 1.260	14 / 1.470	- / -	- / -	- / -	- / -	28 / 2.934	
2.1.5) Cockpit Avionics Upgrade (CAU) B Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.312	9 / 9.702	9 / 10.210	6 / 5.819	28 / 30.043	
2.1.6) CH-53E DVE B kit - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 1.650	23 / 3.496	125 / 19.375	159 / 24.521	
Subtotal: Recurring	- / 1.600	- / -	- / 1.197	- / 10.684	- / -	- / 10.684	- / 3.638	- / 4.312	- / 11.352	- / 13.706	- / 48.655	- / 95.144	
Subtotal: H-53 AVIONICS (OSIP 031-12)	412 / 4.897	- / 2.116	10 / 1.514	78 / 14.228	- / -	78 / 14.228	40 / 6.950	9 / 6.717	67 / 15.814	64 / 17.756	384 / 60.054	1,064 / 130.046	
Subtotal: Procurement, All Modification Items	- / 4.897	- / 2.116	- / 1.514	- / 14.228	- / -	- / 14.228	- / 6.950	- / 6.717	- / 15.814	- / 17.756	- / 60.054	- / 130.046	
Support (All Modification Items)													
3.2) Data	- / 0.629	- / 0.236	- / 0.151	- / 0.100	- / -	- / 0.100	- / 0.094	- / 0.095	- / 0.250	- / 0.100	- / 0.060	- / 1.715	

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 8 / H-53 AVIONICS (OSIP 031-12)
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Models of Systems Affected: CH-53E (149), MH-53E (28), 177 Total	Modification Type: MISSION/PERFORMANCE SUSTAINMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.3) Software	- / 0.737	- / 0.187	- / 1.524	- / 0.876	- / -	- / 0.876	- / 0.553	- / 0.010	- / 0.021	- / 0.020	- / 0.562	- / 4.490
3.4) Training Equipment	- / -	- / -	- / 0.050	- / 0.101	- / -	- / 0.101	- / 0.100	- / 0.100	- / 0.822	- / 0.465	- / 0.100	- / 1.738
3.5) Support Equipment	- / -	- / 0.178	- / 0.035	- / 0.025	- / -	- / 0.025	- / 0.026	- / 0.020	- / 0.020	- / 0.020	- / 0.015	- / 0.339
3.6) ILS	- / 1.931	- / 0.279	- / 0.427	- / 0.491	- / -	- / 0.491	- / 0.462	- / 0.458	- / 0.520	- / 0.497	- / 1.257	- / 6.322
3.7) ILS - Reserve	- / -	- / 0.012	- / 0.020	- / 0.020	- / -	- / 0.020	- / 0.017	- / 0.018	- / 0.015	- / 0.015	- / 0.031	- / 0.148
3.8) Other Support	- / 4.894	- / 1.040	- / 0.811	- / 1.291	- / -	- / 1.291	- / 1.500	- / 1.424	- / 1.870	- / 1.796	- / 3.634	- / 18.260
3.9) Other Support - Reserve	- / -	- / 0.043	- / 0.120	- / 0.061	- / -	- / 0.061	- / 0.063	- / 0.061	- / 0.060	- / 0.060	- / 0.131	- / 0.599
3.10) Aircraft 539 Reconfigure Other Support - OCO	- / 0.609	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.609
<i>Subtotal: Support</i>	- / 8.800	- / 1.975	- / 3.138	- / 2.965	- / -	- / 2.965	- / 2.815	- / 2.186	- / 3.578	- / 2.973	- / 5.790	- / 34.220
Installation												
<i>Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)</i>	- / 2.924	- / 2.057	- / 3.163	- / 4.461	- / -	- / 4.461	- / 1.889	- / 2.311	- / 1.032	- / 1.285	- / 10.581	- / 29.703
<i>Subtotal: Installation</i>	- / 2.924	- / 2.057	- / 3.163	- / 4.461	- / -	- / 4.461	- / 1.889	- / 2.311	- / 1.032	- / 1.285	- / 10.581	- / 29.703
Total												
Total Cost (Procurement + Support + Installation)	16.621	6.148	7.815	21.654	-	21.654	11.654	11.214	20.424	22.014	76.425	193.969

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0528 / H-53 Series		Modification Number / Title: 8 / H-53 AVIONICS (OSIP 031-12)		
Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)							
Manufacturer Information							
Manufacturer Name: Lockheed Martin-CSU				Manufacturer Location: Lexington, KY			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 11			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Raytheon-SMFCD ⁽¹³⁾				Manufacturer Location: Indianapolis, IN			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 10			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2016	Oct 2017	Oct 2018			
Delivery Dates		Aug 2017	Aug 2018	Aug 2019			
Manufacturer Name: Rockwell Collins-SATCOM				Manufacturer Location: CEDAR RAPIDS, IA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: TBD - APR-39D				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 4			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Jan 2018	Jan 2019	Oct 2019	
Delivery Dates				May 2018	May 2019	Dec 2019	
Manufacturer Name: TBD - CAU ⁽¹⁴⁾				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 4			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Oct 2018	Oct 2019	Oct 2020
Delivery Dates					Feb 2019	Feb 2020	Feb 2021
Manufacturer Name: MH EGI - Honeywell				Manufacturer Location: Clearwater, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2015	Oct 2016	Oct 2017			

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 8 / H-53 AVIONICS (OSIP 031-12)

Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)

Manufacturer Information

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Delivery Dates		Oct 2016	Oct 2017	Oct 2018			
Manufacturer Name: TBD - DVE				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						Jan 2020	Jan 2021
Delivery Dates						Jan 2021	Jan 2022

Installation Information

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 AVIONICS (OSIP 031-12) - SMFCD

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.061	1 / 0.030	2 / 0.060	36 / 1.116	- / 0.000	36 / 1.116	21 / 0.661	- / -	- / -	- / -	- / 0.000	62 / 1.928
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.094	- / -	- / -	- / -	- / -	3 / 0.094
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.180	21 / 0.662	- / -	- / -	- / -	27 / 0.842
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.189	- / -	- / -	- / -	6 / 0.189
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 1.632	51 / 1.632
Total	2 / 0.061	1 / 0.030	2 / 0.060	36 / 1.116	- / -	36 / 1.116	30 / 0.935	27 / 0.851	- / -	- / -	51 / 1.632	149 / 4.685

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	-	-	-	1	-	-	-	2	9	9	9	9	12	9	6	3	1	9	9	8	-	-	-	-	-	-	-	-	51	149
Out	2	-	-	-	1	-	-	-	2	9	9	9	9	12	9	6	3	1	9	9	8	-	-	-	-	-	-	-	-	51	149

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 8 / H-53 AVIONICS (OSIP 031-12)
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Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: SATCOM

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	69 / 1.807	29 / 0.000	21 / 0.303	28 / 0.405	- / 0.000	28 / 0.405	- / -	- / -	- / -	- / -	- / 0.000	147 / 2.515
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	69 / 1.807	29 / -	21 / 0.303	28 / 0.405	- / -	28 / 0.405	- / -	- / -	- / -	- / -	- / -	147 / 2.515

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot					
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	69	2	9	9	9	5	5	5	6	7	7	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147	
Out	69	2	9	9	9	5	5	5	6	7	7	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 AVIONICS (OSIP 031-12) - CSU

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 1.056	20 / 2.027	28 / 2.800	28 / 2.800	- / 0.000	28 / 2.800	1 / 0.104	- / -	- / -	- / -	13 / 1.365	101 / 10.152
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 1.056	20 / 2.027	28 / 2.800	28 / 2.800	- / -	28 / 2.800	1 / 0.104	- / -	- / -	- / -	13 / 1.365	101 / 10.152

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 8 / H-53 AVIONICS (OSIP 031-12)

Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)

Installation Information

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 AVIONICS (OSIP 031-12) - CSU

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	11	5	5	5	5	8	8	8	4	7	7	7	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	101
Out	11	5	5	5	5	8	8	8	4	7	7	7	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	101

Method of Implementation: Contractor Field Mod Team:: Installation Name: MH EGI A Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	2 / 0.140	- / -	2 / 0.140	- / -	- / -	- / -	- / -	- / -	2 / 0.140
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.850	- / -	- / -	- / -	- / -	12 / 0.850
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.994	- / -	- / -	- / -	14 / 0.994
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 0.140	- / -	2 / 0.140	12 / 0.850	14 / 0.994	- / -	- / -	- / -	28 / 1.984

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	2	-	-	-	3	3	3	3	3	3	4	4	-	-	-	-	-	-	-	-	-	28
Out	-	-	-	-	-	-	-	-	-	2	-	-	-	3	3	3	3	3	3	4	4	-	-	-	-	-	-	-	-	-	28

Method of Implementation: [none specified]:: Installation Name: MH-53E APR-39D(V)2

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 8 / H-53 AVIONICS (OSIP 031-12)

Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)

Installation Information

Method of Implementation: [none specified]:: Installation Name: MH-53E APR-39D(V)2

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.066	- / -	- / -	- / -	1 / 0.066
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.132	- / -	25 / 1.650	27 / 1.782
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.066	2 / 0.132	- / -	25 / 1.650	28 / 1.848

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	-	-	25	28
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	-	-	25	28

Method of Implementation: Contractor Field Mod Team:: Installation Name: Cockpit Avionics Upgrade (CAU) A Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.400	- / -	- / -	- / -	4 / 0.400
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.900	- / -	- / -	9 / 0.900
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.900	- / -	9 / 0.900
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.606	6 / 0.606
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.400	9 / 0.900	9 / 0.900	6 / 0.606	28 / 2.806

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 8 / H-53 AVIONICS (OSIP 031-12)

Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Cockpit Avionics Upgrade (CAU) A Kits

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	3	3	3	-	3	3	3	6	28
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	3	3	3	-	3	3	3	6	28

Method of Implementation: Contractor Field Mod Team:: Installation Name: CH-53E DVE A kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.385	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 0.828	23 / 0.828
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	125 / 4.500	125 / 4.500
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.385	148 / 5.328

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	3	148	159
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	3	148	159

Method of Implementation (Organic): SMFCD B Kits **Installation Quantity:** 153

Method of Implementation (Organic): SMFCD B Kits - Reserve **Installation Quantity:** 6

Method of Implementation (Organic): CH-53 ARC-210 SATCOM Kit-OCO **Installation Quantity:** 40

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 8 / H-53 AVIONICS (OSIP 031-12)
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Modification Item 1 of 1: H-53 AVIONICS (OSIP 031-12)

Installation Information

Method of Implementation (Organic): MH EGI B Kits	Installation Quantity: 28
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Method of Implementation (Organic): Cockpit Avionics Upgrade (CAU) B Kits	Installation Quantity: 28
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Method of Implementation (Organic): CH-53E DVE B kit	Installation Quantity: 159
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Footnotes:

- (10) Prior Year Kits procured under OSIP 15-05, 10 Trainer kits installed at the "O" Level.
- (11) Kits procured under OSIP 20-07
- (12) 40 Visually Degraded Environment (VDE) kits are being installed simultateously with BFT Kits. Prior year kits procured under OSIP 15-05
- (13) SMFCD is a contract with multiple option CLINs which allow for 1Q procurements after base year contract award with 3 month production lead time 62 kits were procured in Prior Years in OSIP (15-05).
- (14) CAU contract will have multiple option CLINs to allow for 1Q procurements after base year contract award with 4 month production lead time.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 9 / Archived OSIPS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	440.777	-	-	-	-	-	-	-	-	-	-	440.777
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	440.777	-	-	-	-	-	-	-	-	-	-	440.777
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	440.777	-	-	-	-	-	-	-	-	-	-	440.777
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 9 / Archived OSIPS			
Models of Systems Affected: H-53 Series					Modification Type: Various					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Archived OSIPS</i>													
B Kits													
Recurring													
1.1.1) Inactive OSIPS - Organic	- / 440.777	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 440.777	
<i>Subtotal: Recurring</i>	- / 440.777	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 440.777	
<i>Subtotal: Archived OSIPS</i>	- / 440.777	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 440.777	
<i>Subtotal: Procurement, All Modification Items</i>	- / 440.777	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 440.777	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	440.777	-	-	-	-	-	-	-	-	-	-	440.777	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 9 / Archived OSIPS
Modification Item 1 of 1: Archived OSIPS		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0530 / SH-60 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	875.676	100.802	94.899	108.328	3.000	111.328	111.784	128.317	121.703	124.270	1,611.286	3,280.065
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	875.676	100.802	94.899	108.328	3.000	111.328	111.784	128.317	121.703	124.270	1,611.286	3,280.065
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	875.676	100.802	94.899	108.328	3.000	111.328	111.784	128.317	121.703	124.270	1,611.286	3,280.065

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to H-60 Series aircraft. The H-60 Series FY2015 Inventory is comprised of: 22 HH-60H, 1 SH-60B, 5 SH-60F, 269 MH-60S, 206 MH-60R. The HH-60H is a Combat Search and Rescue (CSAR) and Special Warfare Support helicopter assigned to carrier airwings aboard Carrier Vessels (CV) and also in two reserve squadrons. The primary missions of the SH-60B are Anti-Submarine (ASW) and Surface Warfare (SUW). The SH-60F is an ASW, dipping sonar helicopter assigned to carrier airwings based aboard CVs. The SH-60F primary mission is protection of the CV inner zone. The MH-60S is the Fleet Combat Support Helicopter. The primary missions of the MH-60S are Vertical Replenishment, Search and Rescue, Organic Airborne Mine Countermeasures (AMCM), SUW, Extended Maritime Interdiction Operations, and Navy Organic CSAR. The MH-60R is the Multi-Mission Helicopter. The primary missions of the MH-60R are Under Sea Warfare and SUW. The overall goal of the modifications budgeted is for the Integrated Mechanical Diagnostic System, Safety Related Systems Upgrade, AMCM/Armed Helo (Correction of Deficiencies) for the MH-60S, Warfighter upgrades for the MH-60R, H-60 Helicopter Visit, Board, Search, and Seizure, H-60 Overland Missions, SH-60B KG-45A, Warfighter upgrades for the MH-60S Warfighting Capability, SH-60B Datalink (KuBand), MH-60R/S Crew Workload - Operator System Interface, Automatic Radar Periscope Detection Discrimination (ARPD), and H-60 Aircraft Obsolescence and Sustainment.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0530 / SH-60 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 009-03 SAFETY RELATED SYSTEM UPGRADE (OPERATIONAL ENHANCEMENT)			- / 67.565	- / 1.470	- / 2.558	- / 2.714	- / -	- / 2.714
P-3a	2 / 016-04 ARMED HELO/AMCM (OPERATIONAL ENHANCEMENT)			- / 47.877	- / 1.003	- / 1.470	- / 0.352	- / -	- / 0.352
P-3a	3 / 001-06 MH-60R WARFIGHTER (OPERATIONAL ENHANCEMENT)			- / 174.181	- / 58.406	- / 43.701	- / 58.741	- / -	- / 58.741
P-3a	4 / 009-07 MH-60S WARFIGHTER (OPERATIONAL ENHANCEMENT)			- / 186.906	- / 22.602	- / 35.388	- / 34.587	- / 3.000	- / 37.587
P-3a	5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT (SUSTAINMENT)			- / 35.955	- / 9.037	- / 11.782	- / 11.934	- / -	- / 11.934
P-3a	6 / Inactive OSIPs (TBD)			- / 363.192	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 875.676	- / 100.802	- / 94.899	- / 108.328	- / 3.000	- / 111.328

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 009-03 SAFETY RELATED SYSTEM UPGRADE (OPERATIONAL ENHANCEMENT)			- / 2.767	- / 2.821	- / 2.876	- / 3.958	- / 209.996	- / 296.725
P-3a	2 / 016-04 ARMED HELO/AMCM (OPERATIONAL ENHANCEMENT)			- / 0.300	- / -	- / -	- / -	- / -	- / 51.002
P-3a	3 / 001-06 MH-60R WARFIGHTER (OPERATIONAL ENHANCEMENT)			- / 66.302	- / 77.609	- / 53.284	- / 34.547	- / 188.650	- / 755.421
P-3a	4 / 009-07 MH-60S WARFIGHTER (OPERATIONAL ENHANCEMENT)			- / 31.235	- / 38.046	- / 38.797	- / 40.916	- / 154.406	- / 585.883
P-3a	5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT (SUSTAINMENT)			- / 11.180	- / 9.841	- / 26.746	- / 44.849	- / 1,058.234	- / 1,219.558
P-3a	6 / Inactive OSIPs (TBD)			- / -	- / -	- / -	- / -	- / -	- / 363.192
P-40	Total Gross/Weapon System Cost			- / 111.784	- / 128.317	- / 121.703	- / 124.270	- / 1,611.286	- / 3,280.065

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
Decrease in SH-60 SERIES by \$4.596M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

The FY2017 funding request is required for critical safety and obsolescence modifications, the beginning of Very High Frequency Omnidirectional Radio Range/Instrument Landing System (VOR/ILS) and Advance Data Transfer Set (ADTS) NRE efforts, and increased Automatic Radar Periscope Detection and Discriminator (ARPDD) kits and Obsolescence efforts from FY2016 to ensure the warfighter has the most capable systems to meet the threat today and into the future.

Due to the timing of H.R. 2029, FY15 does not reflect Title VIII General Provisions which rescinded \$8.284M.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series				Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	67.565	1.470	2.558	2.714	-	2.714	2.767	2.821	2.876	3.958	209.996	296.725
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	67.565	1.470	2.558	2.714	-	2.714	2.767	2.821	2.876	3.958	209.996	296.725
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	67.565	1.470	2.558	2.714	-	2.714	2.767	2.821	2.876	3.958	209.996	296.725

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION (SH-60B/MH-60R/SH-60F/HH-60H/MH-60S): Safety Related Systems Upgrade funds modifications to improve the safety of operating H-60 Series aircraft in all operations. In addition to those modifications specifically cited below, this Operational Safety Improvement Program provides the vehicle to expeditiously fund and correct H-60 Series airframe and avionics safety-related deficiencies (Hazard Risk Index 1-20). T700 Engine Safety Improvements funds Engineering Change Proposals. In addition, it troubleshoots T700 Engine problems in the H-60 community, finds solutions, and implements them. The engine upgrades include Combustion Module Chamber shroud, Gas Generator Turbine Air Separator seal and cutback diffuser. New Torque Shaft and Lever Bearings are less prone to corrosion, which will reduce the chance of flight controls binding in flight. Future modifications will include improved solid state Caution Advisory Panels, Mobile Aircrew Restraint System (MARS) that will prevent mobile aircrew from being ejected during a mishap, modification of rotor damper bearings with elastomeric bearings leading to increased component life, replacing the current non-locking rescue hook with a locking rescue hook to improve safety, and modification of flight control bolts with self-retaining flight control bolts leading to increased component life, mandated controlled-flight-into-terrain (CFIT) avoidance systems, mandated mid-air-collision avoidance capabilities (MCAC), mandated crash data recording capabilities, improved tail gear box bevel gear mesh patterns to reduce catastrophic damage under increased load conditions, electrical routing optimization to reduce wire chafing hazards leading to fire conditions in operations, and improved shipboard operating equipment to reduce mishap events onboard smaller ships.

Areas of potential OSIP modifications being investigated for future improvements, aircraft structure integration efforts, and modification kits include 1) Power & Propulsion systems/Engines (gearboxes, APU, T700, rotors, fuel systems, and dampers), 2) Aircrew Survivability (integration for seating, harness, hearing), and Safety issues (integration for Landing Gear, Instrument/Navigation, Fuel, Electrical/Wiring, Guns, Weapons, Dynamic Flight Control Components, Mission Computers, AFCS, RADALT, Crash Worthy Seating, Emergency Lighting, and Hydraulic systems) and 3) Airframe/Avionics (soundproofing, landing gear, and rescue hoist, cockpit lighting/searchlights, and ALFS).

Additionally, the safety modifications include aircraft avionics and mission systems that enable for overland operations in degraded visual flight environments (DVE) that are associated with unimproved terrain, both day and night, and in all weather conditions. This includes terrain avoidance warning systems, precision overland navigation awareness displays, enhanced radar laser detection systems for obstacle and power line avoidance, and additional developmental items that pertain to operations in degraded visual environments.

DESCRIPTION/JUSTIFICATION (MH-60S, MH-60R): The Ground Proximity Warning System (GPWS) will be a software-based system that takes existing aircraft data and calculates a recovery profile to the above ground altitude of the aircraft. If the recovery profile (plus a suitable buffer) intercepts this ground height, GPWS will generate a warning to the pilot. Other means of generating a warning may also be used to ensure maximum detection with minimum nuisance cues. FBCB2 BFT is a current theatre requirement for overland helicopter missions.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The H-60 series currently has 49 active Safety Action Records being monitored across all H-60 series aircraft. As solutions become available the aircraft modifications will be implemented.

Current Active Modifications:

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE
<p>-T700 Engine--The engine upgrades include combustion module chamber shroud, gas generator turbine air separator and cutback diffuser. -T700 Engine Rescue Hooks -- Modify the current non-locking rescue hook with a locking rescue hook to improve safety.</p> <p>Future Modifications: -Mobile Aircrew Restraint System (MARS)-- Modify current restraint system with the MARS. -Elastomeric Bearings -- Modify current H-60 platform damper bearings with elastomeric bearings. -Controlled-flight-into-terrain (CFIT) -- avoidance systems. -Mid-air-collision avoidance capabilities (MCAC). -Crash data recording capabilities (CDR). -Improved tail gear box bevel gear mesh patterns to reduce catastrophic damage under increased load conditions. -Electrical routing optimization to reduce wire chafing hazards leading to fire conditions in operations. Improved shipboard operating equipment to reduce mishap events onboard smaller ships. Ground Proximity Warning System (GPWS)--Warning system to the above ground attitude of the aircraft.</p> <p>METHOD OF IMPLEMENTATION: T700 Engines are "O" Level Installs.</p> <p>JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP increases by \$.156M (6%) from FY2016 to FY2017 as of result of increased T700 engine kits.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE

Models of Systems Affected: SH-60B, SH-60F, HH-60H, MH-60R, MH-60S	Modification Type: OPERATIONAL ENHANCEMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: 009-03 SAFETY RELATED SYSTEM UPGRADE												
A Kits												
Recurring												
1.1.1) SH-60 Series Archived ECPs - Organic	- / 28.686	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.686
1.1.2) T700 Engine - Organic	34 / 0.301	37 / 1.110	46 / 1.200	50 / 1.330	- / -	50 / 1.330	50 / 1.356	50 / 1.383	50 / 1.411	50 / 1.439	1,022 / 33.991	1,389 / 43.521
1.1.3) Aircrew Survivability Kits - Organic	- / -	- / -	2 / 0.321	2 / 0.327	- / -	2 / 0.327	2 / 0.334	2 / 0.340	2 / 0.347	4 / 0.708	438 / 92.115	452 / 94.492
1.1.4) Airframe Safety Kits - Organic	- / -	- / -	4 / 0.608	4 / 0.620	- / -	4 / 0.620	4 / 0.632	4 / 0.645	4 / 0.658	8 / 1.342	424 / 83.890	452 / 88.395
Subtotal: Recurring	- / 28.987	- / 1.110	- / 2.129	- / 2.277	- / -	- / 2.277	- / 2.322	- / 2.368	- / 2.416	- / 3.489	- / 209.996	- / 255.094
Non-Recurring												
1.2.1) INSTALLATION KITS N/R - Organic	- / 9.588	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.588
Subtotal: Non-Recurring	- / 9.588	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.588
B Kits												
Recurring												
2.1.1) Archived ECPs - Organic	927 / 7.633	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	927 / 7.633
Subtotal: Recurring	- / 7.633	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.633
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic	- / 3.148	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.148
Subtotal: Non-Recurring	- / 3.148	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.148
Subtotal: 009-03 SAFETY RELATED SYSTEM UPGRADE	961 / 49.356	37 / 1.110	52 / 2.129	56 / 2.277	- / -	56 / 2.277	56 / 2.322	56 / 2.368	56 / 2.416	62 / 3.489	1,884 / 209.996	3,220 / 275.463
Subtotal: Procurement, All Modification Items	- / 49.356	- / 1.110	- / 2.129	- / 2.277	- / -	- / 2.277	- / 2.322	- / 2.368	- / 2.416	- / 3.489	- / 209.996	- / 275.463

Support (All Modification Items)

3.1) SAFETY RELATED ECO	- / 0.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.030
3.2) DATA	- / 1.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.670
3.3) TRAINING EQUIPMENT	- / 0.429	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.429
3.4) ILS	- / 0.640	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.640
3.5) OTHER SUPPORT	- / 15.440	- / 0.360	- / 0.429	- / 0.437	- / -	- / 0.437	- / 0.445	- / 0.453	- / 0.460	- / 0.469	- / -	- / 18.493
Subtotal: Support	- / 18.209	- / 0.360	- / 0.429	- / 0.437	- / -	- / 0.437	- / 0.445	- / 0.453	- / 0.460	- / 0.469	- / -	- / 21.262

Installation

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE

Models of Systems Affected: SH-60B, SH-60F, HH-60H, MH-60R, MH-60S	Modification Type: OPERATIONAL ENHANCEMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	67.565	1.470	2.558	2.714	-	2.714	2.767	2.821	2.876	3.958	209.996	296.725

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE
<i>Modification Item 1 of 1:</i> 009-03 SAFETY RELATED SYSTEM UPGRADE		
Installation Information		
Method of Implementation (Organic): T700 Engine		Installation Quantity: 1389
Method of Implementation (Organic): Aircrew Survivability Kits		Installation Quantity: 452
Method of Implementation (Organic): Airframe Safety Kits		Installation Quantity: 452
Method of Implementation (Organic): Archived ECPs		Installation Quantity: 927

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series				Modification Number / Title: 2 / 016-04 ARMED HELO/AMCM				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	47.877	1.003	1.470	0.352	-	0.352	0.300	-	-	-	-	51.002
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	47.877	1.003	1.470	0.352	-	0.352	0.300	-	-	-	-	51.002
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	47.877	1.003	1.470	0.352	-	0.352	0.300	-	-	-	-	51.002

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Based on Developmental and Operational Testing, Fleet aircraft require modifications to correct identified deficiencies incorporated in production aircraft. These modifications include corrections to Common Cockpit Avionics, Auxiliary Fuel System, High Maintenance Battery, Search and Rescue Equipment, Rotor System and Airframe, Night Vision Device Exterior Lighting, Airborne Mine Countermeasures (AMCM) Mission Equipment and Armed Helo Ancillary Equipment. Current retrofit plan includes AMCM Mission Equipment which are not procured on a one-for-one basis with the A kit modifications. No install is required. Night Vision Device Capable Aircraft Lighting will be retrofitted on 134 Aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The MH-60S aircraft completed Operational Evaluation in March 2002; Milestone III was completed 12 August 2002. The validation of the Auxiliary Tank capability was completed in the second quarter of FY 2005.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP decreases by \$1.118M(76%) from FY2016 to FY2017 as a result of a reduced number of AMCM modifications.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 2 / 016-04 ARMED HELO/AMCM			
Models of Systems Affected: MH-60S				Modification Type: OPERATIONAL ENHANCEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: 016-04 ARMED HELO/AMCM</i>													
A Kits													
Recurring													
1.1.1) Archived ECPs - Organic	- / 13.897	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.897	
1.1.2) Night Vision Device (NVD) Kits - NonOrganic	134 / 5.648	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	134 / 5.648	
1.1.3) Airborne Mine Countermeasures (AMCM) - NonOrganic	125 / 0.163	66 / 0.131	27 / 0.128	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	218 / 0.422	
<i>Subtotal: Recurring</i>	<i>- / 19.708</i>	<i>- / 0.131</i>	<i>- / 0.128</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 19.967</i>	
Non-Recurring													
1.2.1) Installations Kits N/R - Organic	- / 4.205	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.205	
<i>Subtotal: Non-Recurring</i>	<i>- / 4.205</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 4.205</i>	
B Kits													
Recurring													
2.1.1) AMCM Mission Equipment - Organic	26 / 17.754	13 / 0.216	5 / 0.083	4 / 0.066	- / -	4 / 0.066	- / -	- / -	- / -	- / -	- / -	48 / 18.119	
<i>Subtotal: Recurring</i>	<i>- / 17.754</i>	<i>- / 0.216</i>	<i>- / 0.083</i>	<i>- / 0.066</i>	<i>- / -</i>	<i>- / 0.066</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 18.119</i>	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 0.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.395	
2.2.2) Non-Recurring AMCM Correction of Deficiencies - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / 0.200	
<i>Subtotal: Non-Recurring</i>	<i>- / 0.395</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.200</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.595</i>	
<i>Subtotal: 016-04 ARMED HELO/AMCM</i>	<i>285 / 42.062</i>	<i>79 / 0.347</i>	<i>32 / 0.211</i>	<i>4 / 0.066</i>	<i>- / -</i>	<i>4 / 0.066</i>	<i>- / 0.200</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>400 / 42.886</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 42.062</i>	<i>- / 0.347</i>	<i>- / 0.211</i>	<i>- / 0.066</i>	<i>- / -</i>	<i>- / 0.066</i>	<i>- / 0.200</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 42.886</i>	
Support (All Modification Items)													
3.2) Data	- / 0.488	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.488	
3.3) Training Equipment	- / 0.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.099	
3.6) Other Support	- / 2.035	- / 0.050	- / 0.316	- / 0.143	- / -	- / 0.143	- / 0.100	- / -	- / -	- / -	- / -	- / 2.644	
<i>Subtotal: Support</i>	<i>- / 2.622</i>	<i>- / 0.050</i>	<i>- / 0.316</i>	<i>- / 0.143</i>	<i>- / -</i>	<i>- / 0.143</i>	<i>- / 0.100</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 3.231</i>	
Installation													
<i>Modification Item 1 of 1: 016-04 ARMED HELO/AMCM</i>	<i>- / 3.193</i>	<i>- / 0.606</i>	<i>- / 0.943</i>	<i>- / 0.143</i>	<i>- / -</i>	<i>- / 0.143</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 4.885</i>	
<i>Subtotal: Installation</i>	<i>- / 3.193</i>	<i>- / 0.606</i>	<i>- / 0.943</i>	<i>- / 0.143</i>	<i>- / -</i>	<i>- / 0.143</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 4.885</i>	
Total													

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 2 / 016-04 ARMED HELO/AMCM
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Models of Systems Affected: MH-60S **Modification Type:** OPERATIONAL ENHANCEMENT **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total Cost (Procurement + Support + Installation)	47.877	1.003	1.470	0.352	-	0.352	0.300	-	-	-	-	51.002

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 2 / 016-04 ARMED HELO/AMCM

Modification Item 1 of 1: 016-04 ARMED HELO/AMCM

Manufacturer Information

Manufacturer Name: NVD Lighting--Contractor Field Mod Team	Manufacturer Location: New MFG-Loc
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 14

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: AMCM--Contractor Field Team	Manufacturer Location: New MFG - Loc
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 16

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2015					
Delivery Dates	Feb 2016	Feb 2017					

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Night Vision Device (NVD) Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	109 / 2.960	16 / 0.273	9 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	134 / 3.833
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	109 / 2.960	16 / 0.273	9 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	134 / 3.833

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	109	-	5	6	5	1	2	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	134
Out	109	-	5	6	5	1	2	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	134

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 2 / 016-04 ARMED HELO/AMCM
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Modification Item 1 of 1: 016-04 ARMED HELO/AMCM

Installation Information

Method of Implementation: [none specified]:: Installation Name: Airborne Mine Countermeasures (AMCM)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	62 / 0.233	63 / 0.333	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	125 / 0.566
FY 2015	- / -	- / -	66 / 0.343	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	66 / 0.343
FY 2016	- / -	- / -	- / -	27 / 0.143	- / -	27 / 0.143	- / -	- / -	- / -	- / -	- / -	27 / 0.143
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	62 / 0.233	63 / 0.333	66 / 0.343	27 / 0.143	- / -	27 / 0.143	- / -	- / -	- / -	- / -	- / -	218 / 1.052

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	62	-	21	21	21	-	22	22	22	-	9	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	218
Out	62	-	21	21	21	-	22	22	22	-	9	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	218

Method of Implementation (Organic): AMCM Mission Equipment - Not Installed **Installation Quantity:** 48

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Exhibit P-3a, Individual Modification: PB 2017 Navy								Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series				Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	174.181	58.406	43.701	58.741	-	58.741	66.302	77.609	53.284	34.547	188.650	755.421
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	174.181	58.406	43.701	58.741	-	58.741	66.302	77.609	53.284	34.547	188.650	755.421
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	174.181	58.406	43.701	58.741	-	58.741	66.302	77.609	53.284	34.547	188.650	755.421

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the MH-60R Series aircraft to include airframe structures, avionics and mission systems. The modifications are part of the Pre-Planned Product Improvement (P3I) effort that includes upgrades to communication, navigation, Identification Friend or Foe (IFF), Link-16, Automatic Radar Periscope Detection and Discriminator (ARPDD), Common Data Link (CDL) Hawklink, Integrated Mechanical Diagnostic System (IMDS), Active Vibration Control, Advanced Data Transfer System (ADTS), Moving Map Integration, Advanced Precision Kill Weapon System (APKWS), Aircraft Ship Integrated Secure and Traverse (ASIST) for LRIP I and subsequent aircraft. Link-16 supports the exchange of Command, Control, Communications, Computers, & Intelligence data that is required to operate in a Joint and North Atlantic Treaty Organization Battlespace. Link-16 is designed to support the exchange of formatted data messages rather than the "raw" data exchange that the existing C-Band Hawklink and CDL Hawklink will support. CDL Hawklink is an update to the current C-Band Hawklink that allows for an increase in bandwidth with the ability to transfer additional data. MH-60R is required to be backward-compatible with both legacy Surface Fleet Combat Systems and forward-compatible with new and under-development Surface Fleet Combat Systems at relatively long-range of not only voice and video information, but large amounts of sensor and tactical data. It is compliant with the Assistant Secretary of Defense C3I Letter dated 18 October 2004 directing commonality and interoperability between all Department of Defense airborne sensor platforms and meets the mandate for a common standard for transmission of unprocessed sensor information. The IMDS will improve aircraft performance and vibration parameters in flight. Link-16, CDL Hawklink, and IMDS are a part of the MH-60R Block Upgrades as specified in the evolutionary acquisition strategy for the program. The Acoustic Subsystem is a key component to meeting MH-60R Anti-Submarine Warfare mission requirements. This Operational Safety Improvement Program (OSIP) includes updates to obsolete components of the Acoustic Subsystem. The Acoustic Subsystem consists of Acoustic Processor, Airborne Low Frequency Sonar (ALFS) Transmitter/Receiver, Reeling Machines, Reeling Machine Interface Unit, Reeling Machine Control Unit, Transducer Assembly, and reel & cable. Night Vision Device improvements will incorporate enhancements to the Thunderstorm Light, ALFS Light, Recovery, Assist, Securing, and Traversing Panel, and Search Light. This OSIP includes all modifications that increase reliability, maintainability and/or mission capability for conduct of the Expanded Maritime Interception Operation (EMIO) mission. Embedded Automated Identification System capability will be procured for improved battlefield situational awareness for Command and Direct Action elements. Fixed Forward Firing Weapons Systems, ANVIS-24 Helmet Display Targeting System (HDTs) and associated modifications in execution of Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC) Mission. Precise weapon arming required to employ crew-served weapons in close quarters require the coincident procurement of three aiming laser systems to kit with each weapon. The current AN/APS-147 Multi-Mode Radar (MMR) requires an initial upgrade prior to incorporating the ARPDD functionality. ARPDD provides the MH-60R the capability to detect very small, low visibility targets, such as periscopes and small vessels, and alert the aircrew to their presence from long distances, reducing aircrew workload and increasing battle group survivability. MH-60R aircraft will receive ARPDD capability, 125 will receive it this capability during production and 149 will be retrofitted for a total of 274 aircraft. The AN/APS-147 MMR consists of the Signal Data Processor/ARPDD Enhanced Processor, Receiver Transmitter (R/T), Antenna Pedestal, Antenna Array, and IFF R/T retrofits. Retrofits to the IFF R/T will provide Mode 5 interrogation capability. Instrument Landing System (ILS) provides precision approach capability ashore and to supplement currently available Precision Approach Radar (PAR) controlled approaches. The PAR is the only precision approach available to the MH-60R and is slated to be replaced by Joint Precision Approach Landing System (JPALS). Additionally, Very high frequency Omnidirectional Radio range (VOR) navigation capability included with the ILS system provides instrument navigation after disestablishment of Tactical Air Command and Navigation system in the Continental United States. The ADTS provides high-capacity storage and transfer of data with multi-level security enabling moving map integration and replacing obsolete components. The MH-60R/ALFS is the primary ASW sensor in the Carrier Strike Group. ALFS provides significant improvements in detection range over the legacy SH-60F/AQS-13 sonar. ALFS component failure rates have depleted the spares inventory, impacting deployed and non-deployed readiness, including the ability to support concurrent MH-60R deployments. ALFS reliability improvement efforts include but are not limited to the following: (1) Reeling machine sonar cable monitoring system to allow for immediate clearing of cable miswraps prior to cable damage, (2) Sonar Transmitter Receiver upgrade to provide cable uplink dynamic equalizer to increase overall usable life of the sonar cable, (3) Transducer Assembly reliability improvement: Hydraulic Motor and stave retention, and (4) Reeling Machine locking device limit switches and aux electric motor power relay.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
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Initial Cadre training will be needed as required per modification. Aircraft Ship Integrated Secure and Traverse System (ASIST) provides an integrated means to secure the MH-60R upon landing on ASIST equipped ships and securely traverse the aircraft into the hangar. As DDG 1000 is being equipped with ASIST, MH-60Rs will need to be modified with the ASIST aircraft components to allow full functioning of the ASIST system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: SAASM Joint Common System Instruction Chairman of the Joint Chiefs of Staff Instruction 6140.01, issued 15 November 1998, mandates that all Precise Position Systems (i.e. GPS used on the MH-60R) users field SAASM-based user equipment and use black keys after 01 October 2002. Critical Design Review was completed April 2009. Automatic Radar Periscope Detection and Discriminator (ARPDD) capability was approved with CPD 260-05 dated 28 November 2005. CDR was completed April 2009. Milestones include contractor test completed in December 2010, developmental test completed in December 2011, and operational test started in July 2012. METHOD OF IMPLEMENTATION: CDL Hawklink, Sonar Transducer Receiver, GPS SAASM, ARPDD, and DVR are "O" Level Installs.

JUSIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP increases \$15.056M (34%) from FY2016 to FY2017. Increase is a result of Very high frequency Omnidirectional Radio range (VOR) Instrumental Landing System (ILS) kit modification beginning in FY2017. Additionally the ARPDD B Kit retrofit quantities increase from quantity of 14 in FY2016 to quantity of 21 in FY2017 (delta \$14.677M). This retrofit quantity increase is required to keep overall ARPDD manufacturing quantity at an economical rate as MH-60R APN-1 ARPDD procurements complete in FY2015. Other Support funding is required for acquisition, configuration/documentation management, scheduling of aircraft and installation activities, engineering, and test support required to incorporate the modifications on the MH-60R aircraft.

In FY15 there is a pending \$8.284M Rescission for SH-60 SERIES.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER			
Models of Systems Affected: MH-60R				Modification Type: OPERATIONAL ENHANCEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER</i>													
A Kits													
Recurring													
1.1.1) ARCHIVED ECPs - Organic	- / 56.814	- / 0.141	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 56.955	
1.1.2) ACOUSTICS TECH INSERT KITS - NonOrganic	47 / 5.297	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 5.297	
1.1.3) VOR INSTRUMENT LANDING SYSTEM (ILS) - NonOrganic	- / -	- / -	- / -	70 / 2.000	- / -	70 / 2.000	70 / 2.079	70 / 2.121	70 / 2.163	- / -	- / -	280 / 8.363	
1.1.4) CDL HAWKLINK KITS - Organic	60 / 36.004	17 / 6.502	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	77 / 42.506	
1.1.5) ARPDD KIT - Organic	35 / 0.332	26 / 0.105	16 / 0.211	16 / 0.215	- / -	16 / 0.215	- / -	- / -	- / -	- / -	- / -	93 / 0.863	
1.1.6) ASIST - NonOrganic	- / -	- / -	4 / 0.584	5 / 0.744	- / -	5 / 0.744	- / -	- / -	- / -	- / -	- / -	9 / 1.328	
1.1.7) ADTS Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 4.424	30 / 5.423	146 / 27.972	203 / 37.819	
Subtotal: Recurring	- / 98.447	- / 6.748	- / 0.795	- / 2.959	- / -	- / 2.959	- / 2.079	- / 2.121	- / 6.587	- / 5.423	- / 27.972	- / 153.131	
Non-Recurring													
1.2.1) ASIST NRE - Organic	- / -	- / 2.239	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.239	
Subtotal: Non-Recurring	- / 0.000	- / 2.239	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.239	
B Kits													
Recurring													
2.1.1) APRDD KIT - Organic	15 / 21.780	28 / 40.501	12 / 23.610	19 / 37.508	- / -	19 / 37.508	22 / 44.974	24 / 50.044	7 / 14.888	- / -	- / -	127 / 233.305	
2.1.2) VOR INSTRUMENT LANDING SYSTEM (ILS) - Organic	- / -	- / -	- / -	27 / 1.252	- / -	27 / 1.252	70 / 3.060	70 / 3.121	70 / 3.183	43 / 2.159	- / -	280 / 12.775	
2.1.3) ALFS Reliability Improvements - Organic ⁽¹⁾	20 / 11.828	2 / 0.533	10 / 6.501	70 / 2.606	- / -	70 / 2.606	70 / 1.559	6 / 2.568	8 / 3.070	7 / 2.784	- / -	193 / 31.449	
2.1.4) ADTS RME Kit - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 6.307	30 / 7.148	146 / 36.890	203 / 50.345	
Subtotal: Recurring	- / 33.608	- / 41.034	- / 30.111	- / 41.366	- / -	- / 41.366	- / 49.593	- / 55.733	- / 27.448	- / 12.091	- / 36.890	- / 327.874	
Non-Recurring													
2.2.1) ADTS NRE - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.232	- / -	- / -	- / -	- / 5.232	
2.2.2) INSTALLATION EQUIPMENT N/R - Organic	- / 10.090	- / 0.600	- / 1.956	- / 1.994	- / -	- / 1.994	- / 2.033	- / 2.074	- / 2.116	- / 2.158	- / 9.704	- / 32.725	
Subtotal: Non-Recurring	- / 10.090	- / 0.600	- / 1.956	- / 1.994	- / -	- / 1.994	- / 2.033	- / 7.306	- / 2.116	- / 2.158	- / 9.704	- / 37.957	
Subtotal: 001-06 MH-60R WARFIGHTER	177 / 142.145	73 / 50.621	42 / 32.862	207 / 46.319	- / -	207 / 46.319	232 / 53.705	170 / 65.160	209 / 36.151	110 / 19.672	292 / 74.566	1,512 / 521.201	
Subtotal: Procurement, All Modification Items	- / 142.145	- / 50.621	- / 32.862	- / 46.319	- / -	- / 46.319	- / 53.705	- / 65.160	- / 36.151	- / 19.672	- / 74.566	- / 521.201	
Support (All Modification Items)													
3.1) ENGINEERING CHANGE ORDERS	- / -	- / 2.176	- / 0.381	- / 0.388	- / -	- / 0.388	- / 0.397	- / 0.404	- / 0.412	- / 0.420	- / 2.231	- / 6.809	
3.2) DATA	- / 0.682	- / -	- / -	- / 0.200	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / 0.882	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series						Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER		
Models of Systems Affected: MH-60R				Modification Type: OPERATIONAL ENHANCEMENT				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
3.3) TRAINING EQUIPMENT	- / -	- / -	- / 0.182	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.601	- / 4.812	- / 1.324	- / 39.162	- / 47.081
3.4) SUPPORT EQUIPMENT	- / -	- / -	- / -	- / 0.600	- / -	- / 0.600	- / 0.612	- / 0.624	- / 0.637	- / 0.649	- / 3.222	- / 6.344
3.5) ILS	- / 1.943	- / 1.171	- / 2.728	- / 2.781	- / -	- / 2.781	- / 2.836	- / 2.836	- / 2.951	- / 3.010	- / 15.968	- / 36.224
3.6) OTHER SUPPORT ⁽²⁾	- / 24.930	- / 4.355	- / 7.548	- / 7.413	- / -	- / 7.413	- / 7.296	- / 7.256	- / 7.579	- / 7.743	- / 44.075	- / 118.195
3.7) INTERIM CONTRACTOR SUPPORT	- / 2.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.575
<i>Subtotal: Support</i>	- / 30.130	- / 7.702	- / 10.839	- / 11.882	- / -	- / 11.882	- / 11.641	- / 11.721	- / 16.391	- / 13.146	- / 104.658	- / 218.110
Installation												
<i>Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER</i>	- / 1.906	- / 0.083	- / -	- / 0.540	- / -	- / 0.540	- / 0.956	- / 0.728	- / 0.742	- / 1.729	- / 9.426	- / 16.110
<i>Subtotal: Installation</i>	- / 1.906	- / 0.083	- / -	- / 0.540	- / -	- / 0.540	- / 0.956	- / 0.728	- / 0.742	- / 1.729	- / 9.426	- / 16.110
Total												
Total Cost (Procurement + Support + Installation)	174.181	58.406	43.701	58.741	-	58.741	66.302	77.609	53.284	34.547	188.650	755.421

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER

Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER

Manufacturer Information

Manufacturer Name: ASIST--TBD Manufacturer Location: TBD

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016				
Delivery Dates	Dec 2015	Dec 2016	Dec 2017				

Manufacturer Name: VOR/ILS--Contractor TBD Manufacturer Location: TBD

Administrative Leadtime (in Months): 5 Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	
Delivery Dates			Jun 2017	Jun 2018	Jun 2019	Jun 2020	

Manufacturer Name: ADTS--Sikorsky Aircraft Corp Manufacturer Location: Stratford, CT

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 8

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						Jan 2020	Jan 2021
Delivery Dates						Sep 2020	Sep 2021

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ACOUSTICS TECH INSERT KITS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	45 / 1.906	2 / 0.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	47 / 1.989
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	45 / 1.906	2 / 0.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 1.989

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER

Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ACOUSTICS TECH INSERT KITS

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	45	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47
Out	45	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47

Method of Implementation: Contractor Field Mod Team:: Installation Name: VOR INSTRUMENT LANDING SYSTEM (ILS)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	35 / 0.350	- / -	35 / 0.350	35 / 0.357	- / -	- / -	- / -	- / -	70 / 0.707
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.357	35 / 0.364	- / -	- / -	- / -	70 / 0.721
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.364	35 / 0.371	- / -	- / -	70 / 0.735
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.371	35 / 0.379	- / -	70 / 0.750
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	35 / 0.350	- / -	35 / 0.350	70 / 0.714	70 / 0.728	70 / 0.742	35 / 0.379	- / -	280 / 2.913

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	-	-	-	-	18	17	18	17	18	17	18	17	18	17	18	17	18	17	18	17	18	-	-	-	280
Out	-	-	-	-	-	-	-	-	-	-	-	-	18	17	18	17	18	17	18	17	18	17	18	17	18	17	18	17	18	-	-	-	280

Method of Implementation: Contractor Field Mod Team:: Installation Name: ASIST

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER

Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ASIST

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	4 / 0.190	- / -	4 / 0.190	- / -	- / -	- / -	- / -	- / -	4 / 0.190
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.242	- / -	- / -	- / -	- / -	5 / 0.242
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	4 / 0.190	- / -	4 / 0.190	5 / 0.242	- / -	- / -	- / -	- / -	9 / 0.432

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	1	2	1	-	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Out	-	-	-	-	-	-	-	-	-	1	1	2	-	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	9

Method of Implementation: Contractor Field Mod Team:: Installation Name: ADTS Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 1.350	- / -	27 / 1.350
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.530	30 / 1.530
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	146 / 7.896	146 / 7.896
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 1.350	176 / 9.426	203 / 10.776

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 3 / 001-06 MH-60R WARFIGHTER

Modification Item 1 of 1: 001-06 MH-60R WARFIGHTER

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ADTS Kit

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	7	7	176	203
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	7	7	176	203

Method of Implementation (Organic): CDL HAWKLINK KITS **Installation Quantity:** 77

Method of Implementation (Organic): ARPDD KIT **Installation Quantity:** 93

Method of Implementation (Organic): APRDD KIT **Installation Quantity:** 127

Method of Implementation (Organic): VOR INSTRUMENT LANDING SYSTEM (ILS) - Not Installed **Installation Quantity:** 280

Method of Implementation (Organic): ALFS Reliability Improvements **Installation Quantity:** 193

Method of Implementation (Organic): ADTS RME Kit - Not Installed **Installation Quantity:** 203

Footnotes:

(1) ALFS reliability efforts contain different quantities and scope each year resulting in overall cost variability.

(2) Other Support funding is required for acquisition, configuration/documentation management, scheduling of aircraft and installation activities, engineering, and test support required to incorporate the modifications on the MH-60R aircraft.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series				Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	186.906	22.602	35.388	34.587	3.000	37.587	31.235	38.046	38.797	40.916	154.406	585.883
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	186.906	22.602	35.388	34.587	3.000	37.587	31.235	38.046	38.797	40.916	154.406	585.883
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	186.906	22.602	35.388	34.587	3.000	37.587	31.235	38.046	38.797	40.916	154.406	585.883

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: This Operational Safety Improvement Program (OSIP) funds modifications to the MH-60S series airframe structures, avionics and mission systems, and provides for the retrofit of aircraft, trainers, and support equipment.

Engineering Change Proposal (ECP) 4015 / Armed Helo Block 3A includes airframe provisions, removable mission kits, and trainer updates into Block 3A aircraft to provide capability against the Fast Attack Craft / Fast In-shore Attack Craft (FAC/FIAC) threat and support Naval Special Warfare, and includes the following systems: Fixed Forward Firing Weapons (FFFW) guns and rockets, Helmet Display Targeting System (HDTs), and Full Motion Video capable Data Link.

ECP 4034 includes airframe provisions, communication upgrades, and trainer updates in two phases: Airborne Mine Countermeasures (AMCM) and Block 3B Armed Helo Pre-Planned Product Improvement (P3I). AMCM includes integration of Airborne Mine Neutralization System and Airborne Laser Mine Detection System. Armed Helo Block 3B Full P3I effort includes: Link-16, Selective Availability Anti-Spoofing Module (SAASM), Global Positioning System (GPS) Antenna System-1 (GAS-1), Aircraft Personality Control Module (APCM), Identification Friend or Foe (IFF) Mode S and Mode 5, and Advanced Data Transfer System (ADTS). Partial P3I includes Communications Upgrades only on Block 1 aircraft.

ECP 4046 includes airframe provisions for Active Vibration Control (AVC) and Downed Aviator Locator System (DALs) in all Block 3 aircraft.

This OSIP also provides the retrofit of ECP 4039 required to accommodate aircraft structural loads imposed by the addition of the AMCM and Block 3 Armed Helo capabilities. It also includes retrofit of Integrated Mechanical Diagnostics System (IMDS) in all MH-60S aircraft for vibration and component health usage monitoring. In addition, IMDS includes a crash survivable flight data recorder capability as well as providing capabilities required for transition to Condition Based Maintenance (CBM) and to employ Military Flight Operations Quality Assurance (MFOQA) capability.

Funding additionally supports the modifications to the H-60 series aircraft in support of Fleet operations for in-country / overland missions is support of Special Operations Command. The modifications will protect the aircraft by improving Aircraft Survivability Equipment (ASE) to pace the threat from the latest Surface to Air Weapons and from physical damage due to the operational environment in order to increase reliability, maintainability and /or mission capability for the conduct of in-country / overland missions. Navy Special Operation Forces (SOF) fly joint missions with the Special Operations Command requiring commonality with Joint Forces.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The MH-60S Aircraft completed Milestone III in August 2002. Armed Helo achieved Initial Operational Capability (IOC) in June 2007. IMDS and P3I achieved IOC in December 2009. AMCM will achieve IOC in FY2015.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP 009-07 decreases \$.785M (2.2%) from FY2016 to FY2017. Decrease is a result of the ramp down of ECP 4039, ECP 4057, and IMDS kit procurements.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER			
Models of Systems Affected: MH-60S				Modification Type: OPERATIONAL ENHANCEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER</i>													
A Kits													
Recurring													
1.1.1) ARCHIVED ECPs - Organic	- / 45.108	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 45.108	
1.1.2) ECP 4034 Block 2B/Block 3B Full P3I - NonOrganic ⁽³⁾	54 / 11.828	6 / 0.589	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 12.417	
1.1.3) ECP 4034 Block 3B Partial P3I - NonOrganic	46 / 1.006	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 1.006	
1.1.4) ECP 4039 - NonOrganic	53 / 7.562	14 / 1.145	15 / 1.383	4 / 0.376	- / -	4 / 0.376	- / -	- / -	- / -	- / -	- / -	86 / 10.466	
1.1.5) ECP 4046 AVC/DALS - NonOrganic	12 / 2.897	10 / 2.800	12 / 3.640	16 / 4.947	- / -	16 / 4.947	10 / 3.153	16 / 5.146	- / -	- / -	- / -	76 / 22.583	
1.1.6) Integrated Mechanical Diagnostics Systems (IMDS) - NonOrganic	123 / 14.139	17 / 3.030	24 / 4.363	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	164 / 21.532	
1.1.7) Data Link A Kit - NonOrganic	- / 0.383	- / -	- / -	18 / 2.910	- / -	18 / 2.910	18 / 2.968	18 / 3.027	24 / 4.117	24 / 4.199	117 / 21.706	219 / 39.310	
1.1.8) FFW - NonOrganic	178 / 1.581	38 / 0.233	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / 1.814	
1.1.9) ECP 4057 Lower Anti-Collision Fix - Organic	- / -	134 / 0.228	134 / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	268 / 0.453	
1.1.10) HDTS Akit - NonOrganic	- / -	- / -	12 / 0.432	18 / 0.661	- / -	18 / 0.661	18 / 0.674	24 / 0.916	24 / 0.934	30 / 1.191	93 / 3.848	219 / 8.656	
1.1.11) ADTS Kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 3.310	30 / 3.752	146 / 19.361	203 / 26.423	
1.1.12) DAIRCM - Organic	- / -	- / -	- / -	- / -	14 / 3.000	14 / 3.000	- / -	- / -	- / -	- / -	- / -	14 / 3.000	
<i>Subtotal: Recurring</i>	<i>- / 84.504</i>	<i>- / 8.025</i>	<i>- / 10.043</i>	<i>- / 8.894</i>	<i>- / 3.000</i>	<i>- / 11.894</i>	<i>- / 6.795</i>	<i>- / 9.089</i>	<i>- / 8.361</i>	<i>- / 9.142</i>	<i>- / 44.915</i>	<i>- / 192.768</i>	
Non-Recurring													
1.2.1) Data Link NRE - Organic	- / -	- / 4.556	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.556	
1.2.2) Installation Kits N/R - Organic	- / 28.553	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.853	
<i>Subtotal: Non-Recurring</i>	<i>- / 28.553</i>	<i>- / 4.856</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 33.409</i>	
B Kits													
Recurring													
2.1.1) FFW (B Kits)/RME - Organic	151 / 34.391	32 / 2.667	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	183 / 37.058	
2.1.2) Data Link RME - Organic	- / -	- / -	- / -	12 / 2.400	- / -	12 / 2.400	12 / 2.448	14 / 2.913	24 / 5.093	20 / 4.329	39 / 8.693	121 / 25.876	
2.1.3) HDTS RME - Organic	- / -	- / -	6 / 1.650	12 / 3.364	- / -	12 / 3.364	12 / 3.431	12 / 3.499	12 / 3.569	24 / 7.281	42 / 13.101	120 / 35.895	
2.1.4) HDTS Helmet Tracker (HTK) - Organic	- / -	- / -	24 / 0.755	24 / 0.770	- / -	24 / 0.770	48 / 1.570	48 / 1.602	48 / 1.634	48 / 1.666	240 / 8.840	480 / 16.837	
2.1.5) ADTS RME Kit - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 3.664	30 / 4.152	146 / 21.430	203 / 29.246	
<i>Subtotal: Recurring</i>	<i>- / 34.391</i>	<i>- / 2.667</i>	<i>- / 2.405</i>	<i>- / 6.534</i>	<i>- / -</i>	<i>- / 6.534</i>	<i>- / 7.449</i>	<i>- / 8.014</i>	<i>- / 13.960</i>	<i>- / 17.428</i>	<i>- / 52.064</i>	<i>- / 144.912</i>	
Non-Recurring													
2.2.1) ADTS NRE - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.047	- / -	- / -	- / -	- / 5.047	
2.2.2) Installation Equipment N/R - Organic	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series						Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER			
Models of Systems Affected: MH-60S				Modification Type: OPERATIONAL ENHANCEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Non-Recurring</i>	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.047	- / -	- / -	- / -	- / 5.097	
<i>Subtotal: 009-07 MH-60S WARFIGHTER</i>	617 / 147.498	251 / 15.548	227 / 12.448	104 / 15.428	14 / 3.000	118 / 18.428	118 / 14.244	132 / 22.150	186 / 22.321	206 / 26.570	823 / 96.979	2,678 / 376.186	
<i>Subtotal: Procurement, All Modification Items</i>	- / 147.498	- / 15.548	- / 12.448	- / 15.428	- / 3.000	- / 18.428	- / 14.244	- / 22.150	- / 22.321	- / 26.570	- / 96.979	- / 376.186	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / -	- / 0.331	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.331	
3.2) Data	- / 0.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.040	
3.3) Training Equipment ⁽⁴⁾	- / 3.911	- / -	- / 5.932	- / 0.836	- / -	- / 0.836	- / -	- / 3.360	- / 3.140	- / 3.281	- / -	- / 20.460	
3.4) Support Equipment	- / 1.207	- / -	- / 0.321	- / 0.327	- / -	- / 0.327	- / -	- / -	- / -	- / -	- / -	- / 1.855	
3.5) ILS	- / 3.746	- / 1.038	- / 1.297	- / 1.322	- / -	- / 1.322	- / 1.348	- / 1.375	- / 1.403	- / 1.431	- / 7.591	- / 20.551	
3.6) Other Support ⁽⁵⁾	- / 10.904	- / 2.306	- / 6.299	- / 6.196	- / -	- / 6.196	- / 6.107	- / 6.206	- / 6.345	- / 6.481	- / 30.448	- / 81.292	
<i>Subtotal: Support</i>	- / 19.808	- / 3.675	- / 13.849	- / 8.681	- / -	- / 8.681	- / 7.455	- / 10.941	- / 10.888	- / 11.193	- / 38.039	- / 124.529	
Installation													
<i>Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER</i>	- / 19.600	- / 3.379	- / 9.091	- / 10.478	- / -	- / 10.478	- / 9.536	- / 4.955	- / 5.588	- / 3.153	- / 19.388	- / 85.168	
<i>Subtotal: Installation</i>	- / 19.600	- / 3.379	- / 9.091	- / 10.478	- / -	- / 10.478	- / 9.536	- / 4.955	- / 5.588	- / 3.153	- / 19.388	- / 85.168	
Total													
Total Cost (Procurement + Support + Installation)	186.906	22.602	35.388	34.587	3.000	37.587	31.235	38.046	38.797	40.916	154.406	585.883	

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0530 / SH-60 Series		Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER		
Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER							
Manufacturer Information							
Manufacturer Name: ECP 4034 Full -- Sikorsky Aircraft Corporation				Manufacturer Location: Stratford, CT			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014						
Delivery Dates	Jun 2015						
Manufacturer Name: ECP 4034 Partial -- Sikorsky Aircraft Corporation				Manufacturer Location: Stratford, CT			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: ECP 4039 -- Sikorsky Aircraft Corporation				Manufacturer Location: Stratford, CT			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 24			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Sep 2015	Nov 2015	Nov 2016				
Delivery Dates	Jan 2017	Nov 2017	Nov 2018				
Manufacturer Name: ECP 4046 AVC/DALS -- FRCMA/FRCSSW				Manufacturer Location: Norfolk, VA/San Diego, CA			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 13			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2015	Nov 2015	Nov 2016	Nov 2017	Nov 2018		
Delivery Dates	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019		
Manufacturer Name: IMDS -- Goodrich				Manufacturer Location: Vergennes, VT			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015					
Delivery Dates	Dec 2015	Dec 2016					
Manufacturer Name: FFV-- NSWC Crane				Manufacturer Location: Crane, IN			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 11			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014						
Delivery Dates	Oct 2015						
Manufacturer Name: HDTS Akit				Manufacturer Location: TBD			

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER

Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER

Manufacturer Information

Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 10			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates		Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021
Manufacturer Name: ADTS--Sikorsky Aircraft Corp				Manufacturer Location: Stratford, CT			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 9			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						Jan 2020	Jan 2021
Delivery Dates						Sep 2020	Sep 2021
Manufacturer Name: Data Link				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 10			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021
Delivery Dates			Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 4034 Block 2B/Block 3B Full P3I

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	46 / 2.584	- / -	8 / 0.640	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	54 / 3.224
FY 2015	- / -	- / -	- / -	6 / 0.489	- / -	6 / 0.489	- / -	- / -	- / -	- / -	- / -	6 / 0.489
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	46 / 2.584	- / -	8 / 0.640	6 / 0.489	- / -	6 / 0.489	- / -	- / -	- / -	- / -	- / -	60 / 3.713

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER

Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 4034 Block 2B/Block 3B Full P3I

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	46	-	-	-	-	4	4	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
Out	44	2	-	-	-	-	4	4	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60

Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 4034 Block 3B Partial P3I

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Prior Years	45 / 1.833	1 / 0.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	45 / 1.833	1 / 0.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 1.865

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	45	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46
Out	45	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46

Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 4039

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Prior Years	39 / 8.391	- / -	14 / 3.962	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000
FY 2015	- / -	- / -	- / -	14 / 4.037	- / -	14 / 4.037	- / -	- / -	- / -	- / -	- / -	14 / 4.037

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER

Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 4039

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	15 / 4.411	- / -	- / -	- / -	- / -	15 / 4.411
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.200	- / -	- / -	- / -	4 / 1.200
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	39 / 8.391	- / -	14 / 3.962	14 / 4.037	- / -	14 / 4.037	15 / 4.411	4 / 1.200	- / -	- / -	- / -	86 / 22.001

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	39	-	-	-	-	4	3	4	3	-	5	5	4	4	4	4	3	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86
Out	39	-	-	-	-	4	3	4	3	-	5	5	4	4	4	4	3	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86

Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 4046 AVC/DALS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	6 / 1.589	6 / 1.589	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	12 / 3.178
FY 2015	- / -	- / -	6 / 1.390	4 / 1.131	- / -	4 / 1.131	- / -	- / -	- / -	- / -	- / -	10 / 2.521
FY 2016	- / -	- / -	- / -	12 / 2.833	- / -	12 / 2.833	- / -	- / -	- / -	- / -	- / -	12 / 2.833
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	16 / 3.851	- / -	- / -	- / -	- / -	16 / 3.851
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.455	- / -	- / -	- / -	10 / 2.455
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 4.007	- / -	- / -	16 / 4.007
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	6 / 1.589	12 / 2.979	16 / 3.964	- / -	16 / 3.964	16 / 3.851	10 / 2.455	16 / 4.007	- / -	- / -	76 / 18.845

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER

Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 4046 AVC/DALS

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	2	2	2	-	3	6	3	4	4	4	4	1	5	5	5	2	3	3	2	2	5	5	4	-	-	-	-	-	76
Out	-	-	2	2	2	-	3	6	3	4	4	4	4	1	5	5	5	1	3	3	3	1	5	5	5	-	-	-	-	-	76

Method of Implementation: Depot Field Mod Team:: Installation Name: Integrated Mechanical Diagnostics Systems (IMDS)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	101 / 5.829	22 / 1.287	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	123 / 7.116
FY 2015	- / -	- / -	17 / 1.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 1.054
FY 2016	- / -	- / -	- / -	24 / 1.508	- / -	24 / 1.508	- / -	- / -	- / -	- / -	- / -	24 / 1.508
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	101 / 5.829	22 / 1.287	17 / 1.054	24 / 1.508	- / -	24 / 1.508	- / -	- / -	- / -	- / -	- / -	164 / 9.678

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	101	1	7	7	7	1	5	6	5	2	7	8	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164	
Out	101	-	7	7	8	-	5	6	6	1	7	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164	

Method of Implementation: Depot Field Mod Team:: Installation Name: Data Link A Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER

Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: Data Link A Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.540	- / -	- / -	- / -	- / -	18 / 0.540
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.551	- / -	- / -	- / -	18 / 0.551
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.562	- / -	- / -	18 / 0.562
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.764	- / -	24 / 0.764
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.779	24 / 0.779
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	117 / 4.029	117 / 4.029
Total	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.540	18 / 0.551	18 / 0.562	24 / 0.764	141 / 4.808	219 / 7.225

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	2	6	5	5	2	6	5	5	2	6	5	5	2	7	8	7	141	219
Out	-	-	-	-	-	-	-	-	-	-	-	-	2	6	5	5	2	6	5	5	2	6	5	5	2	7	8	7	141	219

Method of Implementation: Contractor Field Mod Team:: Installation Name: FFW

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	125 / 0.963	53 / 0.471	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	178 / 1.434
FY 2015	- / -	- / -	38 / 0.456	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.456
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	125 / 0.963	53 / 0.471	38 / 0.456	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / 1.890

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER

Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: FFW

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	125	12	13	14	14	9	9	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216
Out	125	12	13	14	14	9	9	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216

Method of Implementation: Contractor Field Mod Team:: Installation Name: HDTS Akit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	12 / 0.480	- / -	12 / 0.480	- / -	- / -	- / -	- / -	- / -	12 / 0.480
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.734	- / -	- / -	- / -	- / -	18 / 0.734
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.749	- / -	- / -	- / -	18 / 0.749
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.019	- / -	- / -	24 / 1.019
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.039	- / -	24 / 1.039
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.325	30 / 1.325
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	93 / 4.279	93 / 4.279
Total	- / -	- / -	- / -	12 / 0.480	- / -	12 / 0.480	18 / 0.734	18 / 0.749	24 / 1.019	24 / 1.039	123 / 5.604	219 / 9.625

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	3	3	3	3	4	4	5	5	4	4	5	5	6	6	6	6	6	6	6	6	123	219
Out	-	-	-	-	-	-	-	-	-	3	3	3	3	4	4	5	5	4	4	5	5	6	6	6	6	6	6	6	6	123	219

Method of Implementation: [none specified]:: Installation Name: ADTS Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER

Modification Item 1 of 1: 009-07 MH-60S WARFIGHTER

Installation Information

Method of Implementation: [none specified]:: Installation Name: ADTS Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 1.350	27 / 1.350
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.530	30 / 1.530
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	146 / 7.446	146 / 7.446
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 1.350	203 / 10.326

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	9	176	203
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	9	176	203

Method of Implementation (Organic): ECP 4057 Lower Anti-Collision Fix **Installation Quantity:** 268

Method of Implementation (Organic): DAIRCM - Not Installed **Installation Quantity:** 14

Method of Implementation (Organic): FFW (B Kits)/RME **Installation Quantity:** 183

Method of Implementation (Organic): Data Link RME - Not Installed **Installation Quantity:** 121

Method of Implementation (Organic): HDTS RME - Not Installed **Installation Quantity:** 120

Method of Implementation (Organic): HDTS Helmet Tracker (HTK) - Not Installed **Installation Quantity:** 480

Method of Implementation (Organic): ADTS RME Kit - Not Installed **Installation Quantity:** 203

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 4 / 009-07 MH-60S WARFIGHTER

Footnotes:

- (3) Cost element 1.1.2 procured FY2015 kits will not be installed until FY2017 due to unforeseen fleet unavailability for required Planned Maintenance Interval (PMI) to complete installation.
- (4) 3.3 Training equipment in FY2016 is required to include aircraft operating procedures updates for FAC/FIAC/FFW capabilities to include HDTS, guns, rockets, and Data Link modifications in the operation flight, maintenance, and weapons load trainers and courseware. FY2017 funding is required for HDTS updates to trainers.
- (5) 3.6 Other Support. Helmet Display Tracking System (HDTS) system integration on the MH-60S requires greater manpower beginning in FY2016.

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Exhibit P-3a, Individual Modification: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series				Modification Number / Title: 5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	35.955	9.037	11.782	11.934	-	11.934	11.180	9.841	26.746	44.849	1,058.234	1,219.558
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	35.955	9.037	11.782	11.934	-	11.934	11.180	9.841	26.746	44.849	1,058.234	1,219.558
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	35.955	9.037	11.782	11.934	-	11.934	11.180	9.841	26.746	44.849	1,058.234	1,219.558
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The H-60 aircraft sustainment strategy targets initiatives to remedy the top age-related maintenance degraders that impede the aircraft's ability to operate into the future. This effort will sustain the H-60 in an affordable manner until the follow-on aircraft becomes available. The increase in this Operational Safety Improvement Program (OSIP) reflects the increasing shift towards aircraft modifications as the sole means to incorporate changes on the H-60 Aircraft.

In order to mitigate the risk of Diminishing Manufacturing Sources and Material Shortages (DMSMS) the H-60 program has proactive plan to manage the risk associated with obsolescence issues. DMSMS includes material obsolescence which may occur at the part, module, component, equipment, or other system indenture level. These situations may cause material shortages that endanger H-60 capabilities, readiness, and life cycle support. Preliminary efforts include the incorporation of system bill of materials (BOM) for active monitoring into predictive tools to prioritize and determine risk associated with possible DMSMS occurrences. When issues arise, the solution involves procurement from alternate sources, substitution of components, life of type buys, emulation of components, or ultimately system redesign requiring the modification of H-60 systems.

Wire insulation breaches occur in all aircraft regardless of age, and a breach in the wire is a precursor of wire failure, often resulting in forced landings or even loss of the aircraft and crew. The typical wire inspection employed by military electricians is visual and does not meet the needs of emerging aircraft wiring problems. Obvious failures, such as severed wire, can be detected with human sight; however, visual inspections will not detect the slow erosion associated with the aging process of wire. Further, studies have proven that only twenty-five percent of any aircraft wiring system can be visually inspected without extensive removal of access panels, floorboards, and sound proofing. New FLIR W2 cables and pin saver cable will be procured. This cable will prevent incorrect installation of the cable onto the FLIR, thereby reducing the chance of damaging the FLIR. Upgraded Embedded Inertial Navigation System/Global Positioning System (EGI) will be required to utilize modernized GPS signals. EGI provides positional data for navigation and weapons systems and is required to meet CNO mandated Communication, Navigation, Identification/Air Traffic Management (CNS-ATM) requirements. Additional modifications included under this OSIP will protect the aircraft from physical damage due to the operational environment in order to increase reliability, maintainability and/or mission capability for the conduct of the in-country/overland mission. Trainers/training will be updated as required to maintain configuration with fleet aircraft.

The H-60 Aircraft are included in the Department of the Navy Aviation Plan through calendar year 2045. The H-60 Aircraft Sustainment Strategy targets initiatives to remedy the top age-related maintenance degraders, fatigue life limiters, and safety issues that impede the aircraft's ability to operate into the future. This program implements a concentrated effort to utilize improvements to the H-60 component obsolescence (e.g. engine redesign), structural limitations (e.g. tail pylon, canted bulkhead, station 308 structural improvement), aircrew safety systems, aircraft wiring analysis health, and program sustainment support.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT

Aircraft modification/replacement of the ASN-150 computer and the communication system controller in the HH-60H will allow for future software builds. The current computer has obsolescence issues and does not have the memory or processing speed for new software builds. Other obsolescence issues to be modified are the Automatic Flight Control System control panel, SBU-28 rate gyro and hellfire control units. Aircraft floor boards, sound proofing and environmental control system duct work must be replaced as the aircraft ages and these items wear due to use in addition to other engine, structural, avionics and aircrew safety systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Over the past 3 years reliability centered maintenance analyses and studies have been accomplished identifying the major airframe harnesses of the H-60 aircraft along with the necessary support equipment required to identify the breaches and integrity of the major airframe harnesses. Those harnesses are being revitalized and remanufactured with the latest technologies available today and will be installed at the next Periodic Maintenance Interval (PMI) for selected aircraft. The necessary Aircraft Wiring Analyzer test sets and associated Operational Test Program Sets for all H-60 aircraft and PMI sites are being developed on a similar schedule to be fielded concurrently with the install schedule. SH-60B Tired Wiring commenced the second quarter of FY2012 and will complete the first quarter of FY2015. HH-60H Tired Wiring commences the second quarter of FY2013 and will complete the third quarter of FY2016.

MH-60R/S is the lead platform for Multifunctional Information Distribution System (MIDS)Block Upgrade 2 (BU2), in support of Battle Group Tactical Data Link Network Centric Warfare. MH-60R/S will procure MIDS BU2 upgrades to support Federal Aviation Administration (FAA) Frequency Remapping (FR) and National Security Administration (NSA) Crypto Modernization (CM) mandates. Must comply with both mandates by 2020.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP increases by \$.120M (1%) from FY2016 to FY2017. Different modification quantities and scope for several Type/Model/ Series (T/M/S) of aircraft each year results in overall cost variability.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / SH-60 Series						Modification Number / Title: 5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT			
Models of Systems Affected: SH-60B, SH-60F, HH-60H, MH-60S, MH-60R				Modification Type: SUSTAINMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT</i>													
A Kits													
Recurring													
1.1.1) Archived ECPs - Organic	- / 4.934	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.934	
1.1.2) HH-60H Wiring - NonOrganic	26 / 2.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 2.101	
1.1.3) Obsolescence Components Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 10.715	25 / 21.429	879 / 213.213	917 / 245.357	
1.1.4) ACRT - Organic	- / -	35 / 0.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.070	
Subtotal: Recurring	- / 7.035	- / 0.070	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.715	- / 21.429	- / 213.213	- / 252.462	
Non-Recurring													
1.2.1) Obsolescence Components Kits - Organic	- / -	- / 2.068	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / 0.967	- / 6.120	- / 146.319	- / 156.474	
Subtotal: Non-Recurring	- / 0.000	- / 2.068	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / 0.967	- / 6.120	- / 146.319	- / 156.474	
B Kits													
Recurring													
2.1.1) Avionics B Kits - Organic ⁽⁶⁾	49 / 5.564	3 / 1.708	6 / 2.400	8 / 3.262	- / -	8 / 3.262	22 / 2.867	8 / 3.393	17 / 7.355	17 / 7.502	887 / 461.486	1,017 / 495.537	
2.1.2) Mission System B Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.100	- / -	10 / 1.144	10 / 1.167	41 / 5.036	71 / 8.447	
2.1.3) Weapons B Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.200	- / -	10 / 1.248	10 / 1.273	35 / 4.664	65 / 8.385	
Subtotal: Recurring	- / 5.564	- / 1.708	- / 2.400	- / 3.262	- / -	- / 3.262	- / 5.167	- / 3.393	- / 9.747	- / 9.942	- / 471.186	- / 512.369	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / -	- / -	- / 1.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.700	
2.2.2) Helo Trak Net NRE - Organic	- / 1.304	- / -	- / 0.463	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.767	
2.2.3) MH-60R/S Obsolescence NRE - Organic	- / 11.190	- / -	- / 3.568	- / 5.390	- / -	- / 5.390	- / 2.027	- / 2.999	- / 1.737	- / 2.593	- / 195.093	- / 224.597	
Subtotal: Non-Recurring	- / 12.494	- / -	- / 5.731	- / 5.390	- / -	- / 5.390	- / 2.027	- / 2.999	- / 1.737	- / 2.593	- / 195.093	- / 228.064	
Subtotal: 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT	75 / 25.093	38 / 3.846	6 / 9.131	8 / 8.652	- / -	8 / 8.652	42 / 7.194	8 / 6.392	50 / 23.166	62 / 40.084	1,842 / 1,025.811	2,131 / 1,149.369	
Subtotal: Procurement, All Modification Items	- / 25.093	- / 3.846	- / 9.131	- / 8.652	- / -	- / 8.652	- / 7.194	- / 6.392	- / 23.166	- / 40.084	- / 1,025.811	- / 1,149.369	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / -	- / -	- / -	- / 0.310	- / -	- / 0.310	- / 0.316	- / 0.322	- / 0.329	- / 0.336	- / 3.338	- / 4.951	
3.4) Support Equipment	- / 5.168	- / 0.589	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.757	
3.5) ILS	- / 1.783	- / 2.351	- / 0.254	- / 0.259	- / -	- / 0.259	- / 0.264	- / 0.269	- / 0.275	- / 0.280	- / 2.788	- / 8.523	
3.6) Other Support	- / 3.287	- / 1.909	- / 2.397	- / 2.713	- / -	- / 2.713	- / 3.406	- / 2.858	- / 2.976	- / 4.149	- / 26.297	- / 49.992	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT

Models of Systems Affected: SH-60B, SH-60F, HH-60H, MH-60S, MH-60R	Modification Type: SUSTAINMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Support</i>	- / 10.238	- / 4.849	- / 2.651	- / 3.282	- / -	- / 3.282	- / 3.986	- / 3.449	- / 3.580	- / 4.765	- / 32.423	- / 69.223
Installation												
<i>Modification Item 1 of 1:</i> 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT	- / 0.624	- / 0.342	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.966
<i>Subtotal: Installation</i>	- / 0.624	- / 0.342	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.966
Total												
Total Cost (Procurement + Support + Installation)	35.955	9.037	11.782	11.934	-	11.934	11.180	9.841	26.746	44.849	1,058.234	1,219.558

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT

Modification Item 1 of 1: 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT

Manufacturer Information

Manufacturer Name: - SH-60B/HH-60H Wiring	Manufacturer Location: New MFG - Loc
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 5

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: HH-60H Wiring

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	16 / 0.624	10 / 0.342	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	26 / 0.966
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	16 / 0.624	10 / 0.342	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.966

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	16	2	2	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
Out	16	2	2	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	

Method of Implementation (Organic): Obsolescence Components Kits **Installation Quantity:** 917

Method of Implementation (Organic): ACRT **Installation Quantity:** 35

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 5 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT

Modification Item 1 of 1: 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT

Installation Information

Method of Implementation (Organic): Avionics B Kits	Installation Quantity: 1017
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Method of Implementation (Organic): Mission System B Kits	Installation Quantity: 71
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Method of Implementation (Organic): Weapons B Kits	Installation Quantity: 65
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Method of Implementation (Organic): Weapons B Kits	Installation Quantity: 65
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Footnotes:
(6) Cost Element 2.1.1 Avionics B Kit efforts contain different quantities and scope each year resulting in overall cost variability.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 6 / Inactive OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	363.192	-	-	-	-	-	-	-	-	-	-	363.192
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	363.192	-	-	-	-	-	-	-	-	-	-	363.192
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	363.192	-	-	-	-	-	-	-	-	-	-	363.192
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / SH-60 Series					Modification Number / Title: 6 / Inactive OSIPs			
Models of Systems Affected: [No Model Specified]					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Inactive OSIPs</i>													
A Kits													
Recurring													
1.1.1) Inactive OSIPs - Organic	- / 363.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 363.192	
<i>Subtotal: Recurring</i>	- / 363.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 363.192	
<i>Subtotal: Inactive OSIPs</i>	- / 363.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 363.192	
<i>Subtotal: Procurement, All Modification Items</i>	- / 363.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 363.192	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	363.192	-	-	-	-	-	-	-	-	-	-	363.192	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / SH-60 Series	Modification Number / Title: 6 / Inactive OSIPs
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0532 / H-1 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604245N
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	346.198	42.071	36.668	46.333	3.740	50.073	42.807	35.855	101.068	103.092	481.167	1,238.999
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	346.198	42.071	36.668	46.333	3.740	50.073	42.807	35.855	101.068	103.092	481.167	1,238.999
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	346.198	42.071	36.668	46.333	3.740	50.073	42.807	35.855	101.068	103.092	481.167	1,238.999

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the UH-1Y and AH-1W/Z aircraft and related systems. The overall goals associated with these modifications are to reduce the total cost of ownership while improving ready-based aircraft and ready- for-tasking rates, eliminate safety hazards, improve survivability, fulfill operational requirements, remedy obsolescence, and sustain/improve mission capability in support of the Marine Air Ground Task Force and joint operations worldwide.

The H-1 Series modifications within this line item are grouped into three focus areas: H-1 Avionics Improvements (OSIP 015-12), H-1 Sensors and Weapons Improvements (OSIP 016-12), and H-1 Air Vehicle Improvements (OSIP 013-14).

The mission of the UH-1Y utility helicopter is to provide command and control and combat assault support under day/night and adverse weather conditions and special operations support: supporting arms coordination and aeromedical evacuation. The H-1 aircraft provide local civilian and military search and rescue support, as well as augmenting Department of Homeland Security resources. The AH-1W/Z are tandem-seat, two-place attack helicopters. The mission of the AH-1W/Z attack helicopter is to provide rotary wing close air support, anti-armor, armed escort, armed/visual reconnaissance, anti-helicopter and point air defense and fire support coordination during day/night conditions. The current armament of the AH-1W/Z includes the Sidewinder and Hellfire missile systems, a chin-mounted 20mm turret gun, and a wide variety of forward-firing and gravity-released external stores.

The aircraft inventory objective for the UH-1Y at the start of FY 2017 is projected to be 126 aircraft (vice 128 in A-II); reduced 2 A/C through attrition (mishaps).

The aircraft inventory objective for the AH-1Z at the start of FY 2017 is projected to be 72 aircraft.

The aircraft inventory objective for the AH-1W at the start of FY 2017 is projected to be 108 aircraft.

FY 2017 Overseas Contingency Operations (OCO) funding in the amount of \$3.74M is provided for UH-1Y/AH-1Z Distributed Aperture Infrared Countermeasures (DAIRCM) kits.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0532 / H-1 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604245N

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12) (Operational Improvement)			- / 8.059	- / 21.336	- / 14.590	- / 25.488	- / 3.740	- / 29.228
P-3a	2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12) (Operational Improvement)			- / 43.393	- / 12.422	- / 16.083	- / 15.743	- / -	- / 15.743
P-3a	3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14) (Safety/Reliability Improvements)			- / 9.717	- / 8.313	- / 5.995	- / 5.102	- / -	- / 5.102
P-3a	4 / INACTIVE OSIPS (TBD)			- / 285.029	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 346.198	- / 42.071	- / 36.668	- / 46.333	- / 3.740	- / 50.073

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12) (Operational Improvement)			- / 24.550	- / 14.901	- / 15.248	- / 30.176	- / 198.384	- / 356.472
P-3a	2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12) (Operational Improvement)			- / 13.816	- / 13.067	- / 13.041	- / 48.917	- / 174.299	- / 350.781
P-3a	3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14) (Safety/Reliability Improvements)			- / 4.441	- / 7.887	- / 72.779	- / 23.999	- / 108.484	- / 246.717
P-3a	4 / INACTIVE OSIPS (TBD)			- / -	- / -	- / -	- / -	- / -	- / 285.029
P-40	Total Gross/Weapon System Cost			- / 42.807	- / 35.855	- / 101.068	- / 103.092	- / 481.167	- / 1,238.999

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2017 funding request was reduced by \$13.504M to account for the availability of prior year execution balances.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series				Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8.059	21.336	14.590	25.488	3.740	29.228	24.550	14.901	15.248	30.176	198.384	356.472
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	8.059	21.336	14.590	25.488	3.740	29.228	24.550	14.901	15.248	30.176	198.384	356.472
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8.059	21.336	14.590	25.488	3.740	29.228	24.550	14.901	15.248	30.176	198.384	356.472
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) incorporates changes to H-1 avionics systems, specifically attacking the highest readiness/logistics degraders to reduce the total cost of ownership while improving ready-based aircraft and ready- for-tasking rates. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), and readiness degrader items will yield a more interoperable and survivable H-1 force to sustain warfighter capability in support of worldwide operations. Systems modified and improved on H-1 aircraft will leverage common architectures and utilize existing technology to the maximum extent practicable to minimize development and procurement costs and to reduce the time to field the modifications.

Specific systems associated with this OSIP are: Mission Computer, Digital Map, Flight Control Computer, Wiring Integration Remote Terminals, flight data recorders, maintenance data recorders, video recorders, Digital Video Recorders (DVR), data loaders, air data systems, Multi-Function Displays, Dual Function Displays, interoperable video and digital data links (Tactical Video Data Link and Full Motion Video (FMV)) for Variable Message Format with an Aircraft Network Switch, Data Transfer System and Data Storage Unit. Communication and navigation system updates are required for Ultra High Frequency/ Very High Frequency radio communication systems, Satellite and Over the Horizon Communication systems, Mobile User Objective System (MUOS), Wireless Inter-Communications Systems (WICS), Identification Friend or Foe system, Inertial Navigation System, Global Positioning System (GPS), Aircraft Dependent Surveillance Broadcast (ADS-B), Selective Availability Anti-Spoofing Module (SAASM), GPS non-precision approach capability and Navigation Warfare (NAVWAR) GPS signal protection efforts, radar altimeter, Blue Force Tracker, and Joint Battlefield Command - Platform (JBC-P). Safety system modifications are required for collision avoidance systems, Degraded Visual Environment, Ground Proximity Warning System, Terrain Awareness Warning System, Crash Survivable Flight Incident Recorder, Improved Vehicle Health and Monitoring System and along with Military Flight Operations Quality Assurance, Aircraft Survivability Equipment and Distributed Aperture Infrared Countermeasures.

System Configuration Set updates are required for avionics component upgrades and interface modifications to ensure integration of platform weapons and sensors. Other focus areas will include Weapon Repairable Assembly modifications to improve avionics and weapons system reliability, maintainability, accuracy and interoperability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FMV Validation/Verification and Low Rate Initial Production in FY 2015; Full Rate Production begins in FY 2016.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)			
Models of Systems Affected: UH-1Y, AH-1W/Z			Modification Type: Operational Improvement					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)													
A Kits													
Recurring													
1.1.1) Digital Interoperability (UH-1Y/AH-1Z) - NonOrganic ⁽¹⁾	- / -	3 / 0.300	- / -	1 / 0.104	- / -	1 / 0.104	1 / 0.106	1 / 0.108	4 / 0.442	6 / 0.676	148 / 19.136	164 / 20.872	
1.1.2) Full Motion Video (FMV) (UH-1Y/AH-1Z) - NonOrganic ⁽²⁾	2 / 0.440	10 / 2.200	12 / 2.693	20 / 4.458	- / -	20 / 4.458	20 / 4.547	11 / 2.551	12 / 2.915	18 / 4.460	59 / 20.231	164 / 44.495	
1.1.3) System Configuration Set Updates (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	164 / 1.640	164 / 1.640	
1.1.4) Blue Force Tracker (UH-1Y/AH-1W/Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.216	3 / 0.220	4 / 0.300	6 / 0.458	333 / 24.264	349 / 25.458	
1.1.5) Wireless Internal Communication System (WICS) (UH-1Y) - Organic	- / -	- / -	1 / 0.033	1 / 0.023	- / -	1 / 0.023	2 / 0.047	2 / 0.048	4 / 0.098	4 / 0.100	150 / 3.496	164 / 3.845	
1.1.6) Aircraft Network Switch (ANS) (UH-1Y/AH-1Z) - Organic	- / -	- / -	4 / 0.040	4 / 0.041	- / -	4 / 0.041	4 / 0.042	4 / 0.042	8 / 0.087	12 / 0.132	128 / 1.386	164 / 1.770	
1.1.7) Advanced Data Transfer System (ADTS) (UH-1Y/AH-1Z) - Organic	- / -	- / -	4 / 0.100	4 / 0.102	- / -	4 / 0.102	4 / 0.104	4 / 0.106	8 / 0.216	12 / 0.331	128 / 3.402	164 / 4.361	
1.1.8) Distributed Aperture Infrared Countermeasures (DAIRCM) (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	- / -	9 / 3.740	9 / 3.740	- / -	- / -	- / -	- / -	- / -	9 / 3.740	
1.1.9) Archived Mods - Organic	8 / 3.235	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.235	
Subtotal: Recurring	- / 3.675	- / 2.500	- / 2.866	- / 4.728	- / 3.740	- / 8.468	- / 5.062	- / 3.075	- / 4.058	- / 6.157	- / 73.555	- / 109.416	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / -	- / 3.047	- / 2.900	- / 0.168	- / -	- / 0.168	- / 1.746	- / 1.780	- / 0.223	- / 4.833	- / 0.750	- / 15.447	
Subtotal: Non-Recurring	- / 0.000	- / 3.047	- / 2.900	- / 0.168	- / -	- / 0.168	- / 1.746	- / 1.780	- / 0.223	- / 4.833	- / 0.750	- / 15.447	
B Kits													
Recurring													
2.1.1) Digital Interoperability (UH-1Y/AH-1Z) - Organic	- / -	3 / 0.300	- / -	1 / 0.104	- / -	1 / 0.104	1 / 0.106	1 / 0.108	4 / 0.441	6 / 0.674	148 / 14.800	164 / 16.533	
2.1.2) Full Motion Video (FMV) (UH-1Y/AH-1Z) - Organic	6 / 1.556	17 / 3.750	12 / 2.701	20 / 4.594	- / -	20 / 4.594	20 / 4.686	11 / 2.629	12 / 2.926	18 / 4.477	48 / 12.173	164 / 39.492	
2.1.3) Blue Force Tracker (UH-1Y/AH-1W/Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.090	3 / 0.092	4 / 0.125	6 / 0.191	333 / 12.469	349 / 12.967	
2.1.4) System Configuration Set Updates (UH-1Y/AH-1Z) - Organic	- / -	36 / 1.800	27 / 1.350	1 / 0.051	- / -	1 / 0.051	27 / 1.403	6 / 0.318	- / -	- / -	56 / 3.126	153 / 8.048	
2.1.5) Wireless Internal Communication System (WICS) (UH-1Y) - Organic	- / -	- / -	1 / 0.033	1 / 0.034	- / -	1 / 0.034	2 / 0.069	2 / 0.070	4 / 0.143	4 / 0.146	150 / 9.198	164 / 9.693	
2.1.6) Aircraft Network Switch (ANS) (UH-1Y/AH-1Z) - Organic	- / -	- / -	4 / 0.200	4 / 0.204	- / -	4 / 0.204	4 / 0.208	4 / 0.212	8 / 0.424	14 / 0.743	126 / 6.300	164 / 8.291	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)			
Models of Systems Affected: UH-1Y, AH-1W/Z			Modification Type: Operational Improvement					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
2.1.7 Advanced Data Transfer System (ADTS) (UH-1Y/AH-1Z) - Organic	- / -	- / -	4 / 0.320	4 / 0.326	- / -	4 / 0.326	4 / 0.333	4 / 0.340	8 / 0.693	14 / 1.237	126 / 10.080	164 / 13.329	
2.1.8 Digital Video Recorder (DVR) (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 2.761	54 / 2.761	
<i>Subtotal: Recurring</i>	- / 1.556	- / 5.850	- / 4.604	- / 5.313	- / -	- / 5.313	- / 6.895	- / 3.769	- / 4.752	- / 7.468	- / 70.907	- / 111.114	
Non-Recurring													
2.2.1 Installation Equipment N/R - Organic ⁽³⁾	- / -	- / 3.150	- / 2.797	- / 3.347	- / -	- / 3.347	- / 0.893	- / 1.367	- / 0.416	- / 3.949	- / 10.475	- / 23.394	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / 3.150	- / 2.797	- / 3.347	- / -	- / 3.347	- / 0.893	- / 1.367	- / 0.416	- / 3.949	- / 10.475	- / 23.394	
<i>Subtotal: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)</i>	16 / 5.231	69 / 14.547	69 / 13.167	61 / 10.556	9 / 3.740	70 / 14.296	95 / 14.596	56 / 9.991	80 / 9.449	120 / 22.407	2,151 / 155.687	2,726 / 259.371	
<i>Subtotal: Procurement, All Modification Items</i>	- / 5.231	- / 14.547	- / 13.167	- / 10.556	- / 3.740	- / 14.296	- / 14.596	- / 9.991	- / 9.449	- / 22.407	- / 155.687	- / 259.371	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 0.256	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.256	
3.2) Data ⁽⁴⁾	- / -	- / 0.230	- / 0.562	- / 0.573	- / -	- / 0.573	- / 0.489	- / 0.371	- / 0.378	- / 0.384	- / 0.148	- / 3.135	
3.3) Training Equipment ⁽⁵⁾	- / -	- / 0.561	- / 0.060	- / 0.095	- / -	- / 0.095	- / 0.102	- / 0.045	- / 0.075	- / 0.055	- / 2.000	- / 2.993	
3.4) Support Equipment	- / 0.256	- / 0.500	- / 0.400	- / 0.125	- / -	- / 0.125	- / 0.105	- / 0.045	- / 0.085	- / 0.050	- / -	- / 1.566	
3.5) ILS ⁽⁶⁾	- / -	- / 0.357	- / 0.100	- / 0.175	- / -	- / 0.175	- / 0.185	- / 0.065	- / 0.185	- / 0.200	- / 1.340	- / 2.607	
3.6) Other Support ⁽⁷⁾	- / 1.416	- / 1.496	- / 0.301	- / 0.489	- / -	- / 0.489	- / 0.511	- / 0.086	- / 0.396	- / 0.075	- / 5.353	- / 10.123	
<i>Subtotal: Support</i>	- / 1.928	- / 3.144	- / 1.423	- / 1.457	- / -	- / 1.457	- / 1.392	- / 0.612	- / 1.119	- / 0.764	- / 8.841	- / 20.680	
Installation													
<i>Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)</i>	- / 0.900	- / 3.645	- / -	- / 13.475	- / -	- / 13.475	- / 8.562	- / 4.298	- / 4.680	- / 7.005	- / 33.856	- / 76.421	
<i>Subtotal: Installation</i>	- / 0.900	- / 3.645	- / -	- / 13.475	- / -	- / 13.475	- / 8.562	- / 4.298	- / 4.680	- / 7.005	- / 33.856	- / 76.421	
Total													
Total Cost (Procurement + Support + Installation)	8.059	21.336	14.590	25.488	3.740	29.228	24.550	14.901	15.248	30.176	198.384	356.472	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

Manufacturer Information

Manufacturer Name: TBD -Digital Interoperability	Manufacturer Location: TBD
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014		Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates	Jan 2015		Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021

Manufacturer Name: JF Taylor- Full Motion Video	Manufacturer Location: Patuxent River, Md
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2014	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates	Jan 2015	Oct 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Digital Interoperability (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	3 / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.045
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	1 / 0.015	- / -	1 / 0.015	- / -	- / -	- / -	- / -	- / -	1 / 0.015
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.015	- / -	- / -	- / -	- / -	1 / 0.015
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.015	- / -	- / -	- / -	1 / 0.015
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.060	- / -	- / -	4 / 0.060
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.075	- / -	6 / 0.075
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 2.220	148 / 2.220
Total	- / -	3 / 0.045	- / -	1 / 0.015	- / -	1 / 0.015	1 / 0.015	1 / 0.015	4 / 0.060	6 / 0.075	148 / 2.220	164 / 2.445

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	1	1	1	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	2	2	-	-	3	3	-	148	164	
Out	-	-	-	1	1	1	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	2	2	-	-	3	3	148	164

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Full Motion Video (FMV) (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	2 / 0.900
FY 2015	- / -	10 / 3.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 3.600
FY 2016	- / -	- / -	- / -	12 / 5.400	- / -	12 / 5.400	- / -	- / -	- / -	- / -	- / -	12 / 5.400
FY 2017	- / -	- / -	- / -	20 / 8.060	- / -	20 / 8.060	- / -	- / -	- / -	- / -	- / -	20 / 8.060
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	20 / 8.547	- / -	- / -	- / -	- / -	20 / 8.547
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 4.283	- / -	- / -	- / -	11 / 4.283
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 4.620	- / -	- / -	12 / 4.620
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 6.930	- / -	18 / 6.930
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 31.636	59 / 31.636
Total	2 / 0.900	10 / 3.600	- / -	32 / 13.460	- / -	32 / 13.460	20 / 8.547	11 / 4.283	12 / 4.620	18 / 6.930	59 / 31.636	164 / 73.976

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	-	3	3	4	-	-	-	-	12	6	7	7	-	6	7	7	-	3	4	4	-	4	4	4	-	6	6	6	59	164
Out	2	-	-	3	3	4	-	-	-	-	12	6	7	7	-	6	7	7	-	3	4	4	-	4	4	4	-	6	6	65	164

Method of Implementation (Organic): System Configuration Set Updates (UH-1Y/AH-1Z) - Not Installed **Installation Quantity:** 164

Method of Implementation (Organic): Blue Force Tracker (UH-1Y/AH-1W/Z) - Not Installed **Installation Quantity:** 349

Method of Implementation (Organic): Wireless Internal Communication System (WICS) (UH-1Y) - Not Installed **Installation Quantity:** 164

Method of Implementation (Organic): Aircraft Network Switch (ANS) (UH-1Y/AH-1Z) - Not Installed **Installation Quantity:** 164

Method of Implementation (Organic): Advanced Data Transfer System (ADTS) (UH-1Y/AH-1Z) - Not Installed **Installation Quantity:** 164

Method of Implementation (Organic): Distributed Aperture Infrared Countermeasures (DAIRCM) (UH-1Y/AH-1Z) - Not Installed **Installation Quantity:** 9

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

Modification Item 1 of 1: H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

Installation Information

Method of Implementation (Organic): Archived Mods - Not Installed	Installation Quantity: 8
Method of Implementation (Organic): Digital Interoperability (UH-1Y/AH-1Z) - Not Installed	Installation Quantity: 164
Method of Implementation (Organic): Full Motion Video (FMV) (UH-1Y/AH-1Z)	Installation Quantity: 164
Method of Implementation (Organic): Blue Force Tracker (UH-1Y/AH-1W/Z) - Not Installed	Installation Quantity: 349
Method of Implementation (Organic): System Configuration Set Updates (UH-1Y/AH-1Z) - Not Installed	Installation Quantity: 153
Method of Implementation (Organic): Wireless Internal Communication System (WICS) (UH-1Y) - Not Installed	Installation Quantity: 164
Method of Implementation (Organic): Aircraft Network Switch (ANS) (UH-1Y/AH-1Z) - Not Installed	Installation Quantity: 164
Method of Implementation (Organic): Advanced Data Transfer System (ADTS) (UH-1Y/AH-1Z) - Not Installed	Installation Quantity: 164
Method of Implementation (Organic): Digital Video Recorder (DVR) (UH-1Y/AH-1Z) - Not Installed	Installation Quantity: 54

Footnotes:

- (1) Digital Interoperability, formerly called VMF Interoperability, adds digitally-aided close air support and Variable Message Format capabilities to the UH-1Y and AH-1Z.
- (2) Full Motion Video (FMV) supports UUNS CDTS# 11061UA validated by MROC DM 49-2012 and provides video evidence to battlespace commanders realtime in order to make decisions to engage targets and assess battle damage. Twelve Full Motion Video (FMV) installs in FY16 were moved to FY17 in order to comply with the Congressional reduction of \$(-)5.400M: Full Motion Video installation ahead of need. FMV is necessary to ensure digital interoperability on the platform.
- (3) FY 2017 Installation Equipment N/R required for FMV forward antenna engineering and increased metadata for mission computer.
- (4) FY 2016 and FY 2017 data increases for Full Motion Video (FMV), Aircraft Network Switch (ANS) and Advanced Data Transfer System (ADTS) integration needed to support FMV and digital interoperability.
- (5) FY2017 Training increase is due to required additional maintenance and operator training resulting from avionics improvements such as Digital Interoperability, FMV, ANS and ADTS.
- (6) FY2017 ILS increase is required due to avionics improvements such as Digital Interoperability, FMV, ANS and ADTS.
- (7) Other Support includes validation/verification and engineering support for all modifications.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series				Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	43.393	12.422	16.083	15.743	-	15.743	13.816	13.067	13.041	48.917	174.299	350.781
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	43.393	12.422	16.083	15.743	-	15.743	13.816	13.067	13.041	48.917	174.299	350.781
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	43.393	12.422	16.083	15.743	-	15.743	13.816	13.067	13.041	48.917	174.299	350.781

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) incorporates changes to H-1 sensor and weapon systems, specifically attacking the highest readiness/logistics degraders to reduce the total cost of ownership while improving ready-based aircraft and ready- for-tasking rates. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), and readiness degrader items will yield a more interoperable and survivable H-1 force to sustain warfighter capability in support of worldwide operations. Systems modified and improved on H-1 aircraft will leverage common architectures and utilize existing technology to the maximum extent practicable to minimize development and procurement costs and to reduce the time to field the modifications, while specifically addressing operational availability, enhanced capabilities, and interoperability of sensors to provide a target location of useable accuracy.

This OSIP addresses the U.S. Marine Corps' operational requirement to detect, identify, and destroy tactical-sized armored targets with the precision guided munitions during day, night, and adverse weather conditions. Sensor systems include the Target Sight System (TSS), Navigational Thermal Imaging System (NTIS), BRITE Star Block II, and Night Targeting System Upgrade (NTSU) sensors provide a night/adverse weather Forward-Looking Infrared and laser designator for the H-1 series helicopter. This OSIP also addresses improvements to H-1 series helicopters' weapons systems in support of mission success to include missile, rockets, gun reliability and accuracy. These weapon systems include all Precision Guided Munitions, (Advanced Precision Kill Weapon System (APKWS), the Hellfire family of missiles, (JAGM)), the M197 20MM Turreted Gun System, associated aviation armament equipment, 20MM Linkless Feed System, and the crew served weapons Helicopter Armament Systems (HAS), and Optimized Top Owl (OTO) Helmet Mounted Sight and Display (HMSD) system. Other sensor improvements will include weapon repair assembly modifications to improve weapons reliability, maintainability, systems stabilization, obsolescence as well as upgrades to Laser Spot Tracker (LST) which adds the capability to detect, acquire and track laser designator signatures; Infra-Red (IR) laser pointing devices; and High Definition image improvements to increase detection, recognition, and identification ranges. Safety programs that will be implemented by this OSIP include, but not limited to, spatial disorientation issues that will be addressed through aircraft upgrades to helmet mounted displays such as integration of the Helmet Display and Tracker System (HDTS), Optimized Top Owl (OTO) helmet system, and electronic warfare initiatives (Intrepid Tiger), and Digital Interoperability initiatives that will meet the platform 'net ready' requirements. These modifications will allow the H-1 to be interoperable with battle management systems, and provide aircrews with near real time friendly forces and threat locations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: One BRITE Star Block II system has been modified by the original equipment manufacturer to add a LST subassembly.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)			
Models of Systems Affected: UH-1Y, AH-1W/Z				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
Modification Item 1 of 1: H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)													
A Kits													
Recurring													
1.1.1) AFC-396 (UH-1Y) - NonOrganic ⁽⁸⁾	64 / 1.015	15 / 0.367	13 / 0.327	13 / 0.334	- / -	13 / 0.334	10 / 0.265	6 / 0.162	- / -	- / -	- / -	121 / 2.470	
1.1.2) Archived Mods - Organic	65 / 10.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 10.132	
Subtotal: Recurring	- / 11.147	- / 0.367	- / 0.327	- / 0.334	- / -	- / 0.334	- / 0.265	- / 0.162	- / -	- / -	- / -	- / 12.602	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽⁹⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.000	- / -	- / 3.000	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.000	- / -	- / 3.000	
B Kits													
Recurring													
2.1.1) BRITE Star BLK II (UH-1Y) - Organic	27 / 18.223	- / -	6 / 4.049	12 / 8.260	- / -	12 / 8.260	- / -	- / -	- / -	- / -	2 / 1.350	47 / 31.882	
2.1.2) BRITE Star BLK II Laser Spot Tracker (UH-1Y) - Organic	- / -	24 / 1.200	72 / 3.600	36 / 1.836	- / -	36 / 1.836	- / -	- / -	16 / 0.866	12 / 0.662	- / -	160 / 8.164	
2.1.3) Target Sight System (TSS) Laser Spot Tracker (AH-1Z) - Organic ⁽¹⁰⁾	- / -	- / -	2 / 0.842	7 / 3.006	- / -	7 / 3.006	24 / 10.512	24 / 10.722	20 / 9.114	49 / 22.776	63 / 29.853	189 / 86.825	
2.1.4) Target Sight System (TSS) Upgrade Kit-CREIU (AH-1Z) - Organic	42 / 3.016	25 / 7.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 10.516	
2.1.5) Target Sight System (TSS) Upgrade Kit-IR Pointer (AH-1Z) - Organic	- / -	- / -	42 / 3.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 3.900	
2.1.7) Target Sight System High Definition Upgrade (AH-1Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000	187 / 93.500	
2.1.8) Target Sight System Turret Electronic Unit (TEU) (AH-1Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 5.400	80 / 36.000	
2.1.9) Night Target System Upgrade (NTSU) Kit (AH-1W) - Organic	- / -	13 / 1.560	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 1.560	
2.1.10) OTO Helmet Mounted Sight and Display Reliability Kit (UH-1Y/AH-1Z) - Organic ⁽¹¹⁾	- / -	- / -	- / -	200 / 0.434	- / -	200 / 0.434	- / -	- / -	- / -	200 / 0.440	600 / 1.320	1,000 / 2.194	
Subtotal: Recurring	- / 21.239	- / 10.260	- / 12.391	- / 13.536	- / -	- / 13.536	- / 10.512	- / 10.722	- / 9.980	- / 30.278	- / 162.023	- / 280.941	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 0.545	- / -	- / 1.008	- / 0.105	- / -	- / 0.105	- / 1.070	- / 0.522	- / 0.752	- / 14.501	- / -	- / 18.503	
Subtotal: Non-Recurring	- / 0.545	- / -	- / 1.008	- / 0.105	- / -	- / 0.105	- / 1.070	- / 0.522	- / 0.752	- / 14.501	- / -	- / 18.503	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)			
Models of Systems Affected: UH-1Y, AH-1W/Z			Modification Type: Operational Improvement					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)</i>	198 / 32.931	77 / 10.627	135 / 13.726	268 / 13.975	- / -	268 / 13.975	34 / 11.847	30 / 11.406	36 / 10.732	275 / 47.779	932 / 162.023	1,985 / 315.046	
<i>Subtotal: Procurement, All Modification Items</i>	- / 32.931	- / 10.627	- / 13.726	- / 13.975	- / -	- / 13.975	- / 11.847	- / 11.406	- / 10.732	- / 47.779	- / 162.023	- / 315.046	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 1.352	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.352	
3.2) Data ⁽¹²⁾	- / 0.829	- / 0.717	- / 1.188	- / 0.309	- / -	- / 0.309	- / 0.554	- / 0.506	- / 0.490	- / 0.191	- / 4.551	- / 9.335	
3.5) ILS ⁽¹³⁾	- / 3.546	- / 0.400	- / 0.261	- / 0.412	- / -	- / 0.412	- / 0.416	- / 0.265	- / 0.870	- / 0.440	- / 2.200	- / 8.810	
3.6) Other Support ⁽¹⁴⁾	- / 3.745	- / 0.434	- / 0.908	- / 0.542	- / -	- / 0.542	- / 0.750	- / 0.740	- / 0.949	- / 0.507	- / 5.525	- / 14.100	
<i>Subtotal: Support</i>	- / 9.472	- / 1.551	- / 2.357	- / 1.263	- / -	- / 1.263	- / 1.720	- / 1.511	- / 2.309	- / 1.138	- / 12.276	- / 33.597	
Installation													
<i>Modification Item 1 of 1: H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)</i>	- / 0.990	- / 0.244	- / -	- / 0.505	- / -	- / 0.505	- / 0.249	- / 0.150	- / -	- / -	- / -	- / 2.138	
<i>Subtotal: Installation</i>	- / 0.990	- / 0.244	- / -	- / 0.505	- / -	- / 0.505	- / 0.249	- / 0.150	- / -	- / -	- / -	- / 2.138	
Total													
Total Cost (Procurement + Support + Installation)	43.393	12.422	16.083	15.743	-	15.743	13.816	13.067	13.041	48.917	174.299	350.781	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)

Modification Item 1 of 1: H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)

Manufacturer Information

Manufacturer Name: Adams Communication Electronics - AFC-396	Manufacturer Location: Maryland
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 2

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2015	Oct 2016	Oct 2017	Oct 2018		
Delivery Dates	Dec 2014	Dec 2016	Mar 2017	Dec 2017	Dec 2018		

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: AFC-396 (UH-1Y)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	64 / 0.990	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	64 / 0.990
FY 2015	- / -	15 / 0.244	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.244
FY 2016	- / -	- / -	- / -	13 / 0.247	- / -	13 / 0.247	- / -	- / -	- / -	- / -	- / -	13 / 0.247
FY 2017	- / -	- / -	- / -	13 / 0.258	- / -	13 / 0.258	- / -	- / -	- / -	- / -	- / -	13 / 0.258
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.249	- / -	- / -	- / -	- / -	10 / 0.249
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.150	- / -	- / -	- / -	6 / 0.150
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	64 / 0.990	15 / 0.244	- / -	26 / 0.505	- / -	26 / 0.505	10 / 0.249	6 / 0.150	- / -	- / -	- / -	121 / 2.138

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	64	3	4	4	4	-	-	-	-	6	6	6	8	2	2	3	3	1	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-
Out	64	3	4	4	4	-	-	-	-	6	6	6	8	2	2	3	3	1	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation (Organic): Archived Mods - Not Installed **Installation Quantity:** 65

Method of Implementation (Organic): BRITE Star BLK II (UH-1Y) - Not Installed **Installation Quantity:** 47

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)
Modification Item 1 of 1: H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)		
Installation Information		
Method of Implementation (Organic): BRITE Star BLK II Laser Spot Tracker (UH-1Y) - Not Installed		Installation Quantity: 160
Method of Implementation (Organic): Target Sight System (TSS) Laser Spot Tracker (AH-1Z) - Not Installed		Installation Quantity: 189
Method of Implementation (Organic): Target Sight System (TSS) Upgrade Kit-CREIU (AH-1Z) - Not Installed		Installation Quantity: 67
Method of Implementation (Organic): Target Sight System (TSS) Upgrade Kit-IR Pointer (AH-1Z) - Not Installed		Installation Quantity: 42
Method of Implementation (Organic): Target Sight System High Definition Upgrade (AH-1Z) - Not Installed		Installation Quantity: 189
Method of Implementation (Organic): Target Sight System Turret Electronic Unit (TEU) (AH-1Z) - Not Installed		Installation Quantity: 92
Method of Implementation (Organic): Night Target System Upgrade (NTSU) Kit (AH-1W) - Not Installed		Installation Quantity: 13
Method of Implementation (Organic): OTO Helmet Mounted Sight and Display Reliability Kit (UH-1Y/AH-1Z) - Not Installed		Installation Quantity: 1000

Footnotes:

- (8) AFC-396 configures the UH-1Y to fly with any of the three existing sensors: STAR Safire, BRITE Star Block I or BRITE Star Block II. Thirteen AFC-396 installs were moved from FY16 to FY17 in order to comply with the Congressional reduction of \$(-)0.247M: AFC-396 mod installation funding ahead of need. AFC-396 mods are mission critical to UH-1Y operational squadrons.
- (9) FY2021 cost is associated with 20MM Turret System Digital Upgrade.
- (10) The USMC H-1 operating forces Capabilities Planning Document identifies the need for an electro-optical system capable of automatically detecting laser designator energy for purposes of target handoff operations. The Target Sight System Laser Spot Tracker subassembly enables the AH-1Z to detect, acquire and track laser designator energy for more expeditious target handoff and engagement.
- (11) FY2017 cost is associated with OTO Reliability Improvement Kits for Day Display Module (DDM) and Night Display Module (NDM).
- (12) FY 2016 increase for BRITE Star and TSS LST publications.
- (13) FY2017 ILS increase is required to support TSS Laser Spot Tracker and OTO Helmet Mounted Sight and Display Reliability Kit.
- (14) Other Support includes validation/verification and engineering support for all modifications.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series				Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.717	8.313	5.995	5.102	-	5.102	4.441	7.887	72.779	23.999	108.484	246.717
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.717	8.313	5.995	5.102	-	5.102	4.441	7.887	72.779	23.999	108.484	246.717
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.717	8.313	5.995	5.102	-	5.102	4.441	7.887	72.779	23.999	108.484	246.717

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) incorporates a number of modifications to H-1 air vehicle systems, specifically attacking the highest readiness/logistics degraders to reduce the total cost of ownership while improving ready-based aircraft and ready- for-tasking rates. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), and readiness degrader items will yield a more interoperable and survivable H-1 force to sustain warfighter capability in support of worldwide operations.

Planned modifications under this OSIP cover airframes (structural and air vehicle systems), propulsion, survivability, reliability and maintainability, fuel systems, electrical power, drives, engines, rotors, flying qualities, flight controls, human factors, and weight and balance. Particular focus is on continuously reducing total ownership costs by increasing component time on the aircraft. During full scale development testing of the H-1Upgrades aircraft, data evaluation showed that incorporation of redesigned components applicable to the critical load paths will significantly increase the service life of the aircraft and components to meet the life limit of 10,000 flight hours. Safety programs that will be implemented by this OSIP include, but are not limited to, designated safety-related items, door and hatch latches/hardware, external lights, and mission grip mounts.

Reliability and maintainability modification items that will be implemented by this OSIP include, but are not limited to, the Alternating Current/Direct Current generator and aircraft electrical power distribution system, canopy frame, doors, blade fold rack, gearboxes, fuselage/cabin/seats, external lights, engine mount bearings, main and tail rotor drive shaft, aircraft Nickel Cadmium battery, weight reduction initiatives, integrated mechanical diagnostic system, clearances, main/tail rotor, materials, drive system, systems heating/cooling, corrosion/water intrusion control, cold spray, armored flooring survivability, rotor blade and gun turret covers, cargo hooks, engine cowlings, airframe structural robustness including the improved defensive armament system (IDAS) for carrying stores (UH-1Y machine guns, rocket pods, fuel tanks, etc.), and survivability.

Particular modification focus includes: Health Usage Monitoring System, common tail boom wiring, swash plate assembly, clamp ring assembly, UH-1Y floor panel/belly access and water intrusion abatement, composite elevator, Environmental Control System, tail boom stinger assembly, and Upgrades aircraft main rotor blade.

NOTE: The following items are Organization-level installs: canopy frames, cargo door latch, heat exchange airframe mounting mod, slip ring/standpipe, and tail rotor blades.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: External Lighting Retrofit Kit procurement awarded 2Q FY15.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Models of Systems Affected: UH-1Y, AH-1W/Z	Modification Type: Safety/Reliability Improvements	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

A Kits

Recurring

1.1.1) Tail Boom Clamp and Retainer Mod (UH-1Y/AH-1Z) - NonOrganic	30 / 0.307	15 / 0.218	15 / 0.218	15 / 0.222	- / -	15 / 0.222	4 / 0.060	13 / 0.200	- / -	- / -	13 / 0.144	105 / 1.369
1.1.2) Slip Ring/Standpipe (UH-1Y/AH-1Z) - Organic	- / -	- / -	75 / 0.225	52 / 0.159	- / -	52 / 0.159	52 / 0.162	52 / 0.166	59 / 0.192	59 / 0.195	- / -	349 / 1.099
1.1.3) Canopy Frames (AH-1W/Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 0.500	100 / 0.500
1.1.4) MRGB Pylon Strap Rivets (UH-1Y) - NonOrganic	8 / 0.000	15 / 0.003	4 / 0.001	10 / 0.002	- / -	10 / 0.002	10 / 0.002	20 / 0.005	20 / 0.005	20 / 0.005	61 / 0.016	168 / 0.039
1.1.5) Heat Exchange Airframe Mounting Mod (UH-1Y/AH-1Z) - Organic	- / -	- / -	40 / 0.184	24 / 0.113	- / -	24 / 0.113	- / -	- / -	- / -	- / -	- / -	64 / 0.297
1.1.6) Tail Rotor Drive Shaft (TRDS) Clearance Improvements (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.257	40 / 0.388	30 / 0.297	40 / 0.403	212 / 2.014	349 / 3.359
1.1.7) Tailboom Stinger (UH-1Y/AH-1Z) - Organic	- / -	15 / 0.100	15 / 0.100	20 / 0.136	- / -	20 / 0.136	15 / 0.104	15 / 0.106	30 / 0.216	30 / 0.221	16 / 0.107	156 / 1.090
1.1.8) Cargo Door Latch (UH-1Y) - Organic	- / -	- / -	80 / 0.320	40 / 0.163	- / -	40 / 0.163	28 / 0.117	- / -	- / -	- / -	- / -	148 / 0.600
1.1.9) Tail Rotor Gearbox Mount (UH-1Y/AH-1Z) - NonOrganic	- / -	- / -	80 / 0.080	45 / 0.046	- / -	45 / 0.046	45 / 0.047	35 / 0.037	- / -	- / -	- / -	205 / 0.210
1.1.10) Swashplate Clamp Rings (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 0.390	52 / 0.530	52 / 0.541	152 / 1.520	295 / 2.981
1.1.11) Avionics Cooling (UH-1Y/AH-1Z) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.149	15 / 0.162	4 / 0.041	33 / 0.352
1.1.12) Composite Elevator (UH-1Y/AH-1Z) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	265 / 0.265	265 / 0.265
1.1.13) Structures Improvements (UH-1Y) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.600	7 / 2.856	20 / 8.323	129 / 51.600	160 / 64.379
1.1.14) External Lights Upgrades (UH-1Y/AH-1Z) - NonOrganic	9 / 0.000	80 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	269 / 0.400	358 / 0.800
Subtotal: Recurring	- / 0.307	- / 0.721	- / 1.128	- / 0.841	- / -	- / 0.841	- / 0.749	- / 2.892	- / 4.245	- / 9.850	- / 56.607	- / 77.340

Non-Recurring

1.2.1) Installation Kits N/R - Organic ⁽¹⁵⁾	- / -	- / 0.316	- / 1.212	- / 0.622	- / -	- / 0.622	- / 0.404	- / 0.589	- / 0.302	- / 2.270	- / -	- / 15.715
Subtotal: Non-Recurring	- / 0.000	- / 0.316	- / 1.212	- / 0.622	- / -	- / 0.622	- / 0.404	- / 0.589	- / 0.302	- / 2.270	- / -	- / 15.715

B Kits

Recurring

2.1.1) External Lights (AH-1Z) - Organic	55 / 2.635	80 / 3.833	15 / 0.765	9 / 0.468	- / -	9 / 0.468	13 / 0.690	17 / 0.920	- / -	- / -	- / -	189 / 9.311
2.1.2) External Lights (UH-1Y) - Organic	120 / 4.715	- / -	3 / 0.122	22 / 0.913	- / -	22 / 0.913	7 / 0.296	8 / 0.345	- / -	- / -	- / -	160 / 6.391
2.1.3) Mission Grip Mount (AH-1Z) - Organic	70 / 0.166	73 / 0.475	11 / 0.072	11 / 0.073	- / -	11 / 0.073	8 / 0.054	8 / 0.055	8 / 0.056	- / -	- / -	189 / 0.951
2.1.4) Composite Elevator (UH-1Y/AH-1Z) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	265 / 13.250	265 / 13.250

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)			
Models of Systems Affected: UH-1Y, AH-1W/Z			Modification Type: Safety/Reliability Improvements					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
2.1.5) T700-401C (AH-1Z Reman) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 62.784	- / -	- / -	36 / 62.784	
2.1.6) Structures Improvements (UH-1Y) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.720	14 / 2.570	20 / 3.745	122 / 23.759	160 / 30.794	
Subtotal: Recurring	- / 7.516	- / 4.308	- / 0.959	- / 1.454	- / -	- / 1.454	- / 1.040	- / 2.040	- / 65.410	- / 3.745	- / 37.009	- / 123.481	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽¹⁶⁾	- / 1.261	- / 0.753	- / 1.083	- / 0.725	- / -	- / 0.725	- / 0.469	- / 0.550	- / 0.586	- / 2.322	- / -	- / 7.749	
Subtotal: Non-Recurring	- / 1.261	- / 0.753	- / 1.083	- / 0.725	- / -	- / 0.725	- / 0.469	- / 0.550	- / 0.586	- / 2.322	- / -	- / 7.749	
Subtotal: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)	292 / 9.084	278 / 6.098	338 / 4.382	248 / 3.642	- / -	248 / 3.642	209 / 2.662	255 / 6.071	270 / 70.543	256 / 18.187	1,608 / 93.616	3,754 / 214.285	
Subtotal: Procurement, All Modification Items	- / 9.084	- / 6.098	- / 4.382	- / 3.642	- / -	- / 3.642	- / 2.662	- / 6.071	- / 70.543	- / 18.187	- / 93.616	- / 214.285	
Support (All Modification Items)													
3.2) Data	- / -	- / 0.035	- / 0.067	- / 0.304	- / -	- / 0.304	- / 0.350	- / 0.373	- / 0.380	- / 1.057	- / -	- / 2.566	
3.4) Support Equipment	- / -	- / -	- / -	- / 0.030	- / -	- / 0.030	- / 0.065	- / 0.086	- / -	- / 0.050	- / -	- / 0.231	
3.5) ILS	- / -	- / 0.235	- / 0.235	- / 0.347	- / -	- / 0.347	- / 0.350	- / 0.370	- / 0.370	- / 0.446	- / 2.230	- / 4.583	
3.6) Other Support ⁽¹⁷⁾	- / 0.340	- / 0.838	- / 0.720	- / 0.375	- / -	- / 0.375	- / 0.576	- / 0.662	- / 0.398	- / 1.699	- / 8.555	- / 14.163	
Subtotal: Support	- / 0.340	- / 1.108	- / 1.022	- / 1.056	- / -	- / 1.056	- / 1.341	- / 1.491	- / 1.148	- / 3.252	- / 10.785	- / 21.543	
Installation													
Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)	- / 0.293	- / 1.107	- / 0.591	- / 0.404	- / -	- / 0.404	- / 0.438	- / 0.325	- / 1.088	- / 2.560	- / 4.083	- / 10.889	
Subtotal: Installation	- / 0.293	- / 1.107	- / 0.591	- / 0.404	- / -	- / 0.404	- / 0.438	- / 0.325	- / 1.088	- / 2.560	- / 4.083	- / 10.889	
Total													
Total Cost (Procurement + Support + Installation)	9.717	8.313	5.995	5.102	-	5.102	4.441	7.887	72.779	23.999	108.484	246.717	

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0532 / H-1 Series		Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)		
Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)							
Manufacturer Information							
Manufacturer Name: Depot - Tail Boom Clamp & Retainer				Manufacturer Location: North Carolina			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2015	Oct 2016	Oct 2017			
Delivery Dates	Sep 2015	Sep 2016	Sep 2017	Sep 2018			
Manufacturer Name: Depot - MRGB Plyon Strap Rivets				Manufacturer Location: North Carolina			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2015	Oct 2016				
Delivery Dates	Apr 2015	Apr 2016	Apr 2017				
Manufacturer Name: TBD -Avionics Cooling				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 7				Production Leadtime (in Months): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Apr 2017	Apr 2018	Apr 2019	Apr 2020	
Delivery Dates			Jun 2017	Jun 2018	Jun 2019	Jun 2020	
Manufacturer Name: Depot - Composite Elevator				Manufacturer Location: North Carolina			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 1			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Nov 2018	Nov 2019	
Delivery Dates					Dec 2018	Dec 2019	
Manufacturer Name: TBD - Tail Rotor Gearbox Mount				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	
Delivery Dates		Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	
Manufacturer Name: TBD - T700-401C				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						Oct 2019	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Manufacturer Information

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Delivery Dates						Jan 2020	

Manufacturer Name: Contractor Field Mod Team - External Lights Upgrades Manufacturer Location: Hunstville, Al

Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 2

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015						
Delivery Dates	Mar 2015						

Installation Information

Method of Implementation: Depot Modification Team:: Installation Name: Tail Boom Clamp and Retainer Mod (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	16 / 0.167	14 / 0.131	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	30 / 0.298
FY 2015	- / -	2 / 0.018	13 / 0.139	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.157
FY 2016	- / -	- / -	1 / 0.010	14 / 0.154	- / -	14 / 0.154	- / -	- / -	- / -	- / -	- / -	15 / 0.164
FY 2017	- / -	- / -	- / -	1 / 0.010	- / -	1 / 0.010	14 / 0.154	- / -	- / -	- / -	- / -	15 / 0.164
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.044	- / -	- / -	- / -	- / -	4 / 0.044
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.010	12 / 0.178	- / -	- / -	13 / 0.188
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.192	13 / 0.192
Total	16 / 0.167	16 / 0.149	14 / 0.149	15 / 0.164	- / -	15 / 0.164	18 / 0.198	1 / 0.010	12 / 0.178	- / -	13 / 0.192	105 / 1.207

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	16	2	4	4	6	5	5	3	1	5	5	4	1	5	5	4	4	-	-	-	1	4	4	4	-	-	-	-	-	13	105
Out	16	2	4	4	6	5	5	3	1	5	5	4	1	5	5	4	4	-	-	-	1	4	4	4	-	-	-	-	-	13	105

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Installation Information

Method of Implementation: Depot Modification Team:: Installation Name: MRGB Pylon Strap Rivets (UH-1Y)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	8 / 0.036	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	8 / 0.036
FY 2015	- / -	15 / 0.158	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.158
FY 2016	- / -	- / -	4 / 0.042	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.042
FY 2017	- / -	- / -	- / -	10 / 0.105	- / -	10 / 0.105	- / -	- / -	- / -	- / -	- / -	10 / 0.105
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.105	- / -	- / -	- / -	- / -	10 / 0.105
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.210	- / -	- / -	- / -	20 / 0.210
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.210	- / -	- / -	20 / 0.210
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.210	- / -	20 / 0.210
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	61 / 0.641	61 / 0.641
Total	8 / 0.036	15 / 0.158	4 / 0.042	10 / 0.105	- / -	10 / 0.105	10 / 0.105	20 / 0.210	20 / 0.210	20 / 0.210	61 / 0.641	168 / 1.717

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	8	-	-	8	7	-	-	2	2	-	-	5	5	-	-	5	5	-	-	10	10	-	-	10	10	-	-	10	10	61	168
Out	8	-	-	-	8	7	-	-	2	2	-	-	5	5	-	-	5	5	-	-	10	10	-	-	10	10	-	-	10	71	168

Method of Implementation: Field Mod Team:: Installation Name: Tail Rotor Gearbox Mount (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	80 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 0.400
FY 2017	- / -	- / -	- / -	45 / 0.135	- / -	45 / 0.135	- / -	- / -	- / -	- / -	- / -	45 / 0.135
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.135	- / -	- / -	- / -	- / -	45 / 0.135
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.105	- / -	- / -	- / -	35 / 0.105
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	80 / 0.400	45 / 0.135	- / -	45 / 0.135	45 / 0.135	35 / 0.105	- / -	- / -	- / -	205 / 0.775

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Tail Rotor Gearbox Mount (UH-1Y/AH-1Z)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot									
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4											
In	-	-	-	-	-	20	20	20	20	11	11	11	12	11	11	11	12	8	9	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	205
Out	-	-	-	-	-	20	20	20	20	11	11	11	12	11	11	11	12	8	9	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	205

Method of Implementation: Field Mod Team:: Installation Name: Avionics Cooling (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.700	- / -	- / -	14 / 0.700
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.750	- / -	15 / 0.750
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.200	4 / 0.200
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.700	15 / 0.750	4 / 0.200	33 / 1.650

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	-	-	8	7	4	33
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	-	-	8	7	4	33

Method of Implementation: Field Mod Team:: Installation Name: Composite Elevator (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Composite Elevator (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	265 / 2.650	265 / 2.650
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	265 / 2.650	265 / 2.650

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265	265
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265	265

Method of Implementation: Contractor Field Mod Team:: Installation Name: External Lights Upgrades (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	9 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	9 / -
FY 2015	0 / 0.090	80 / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 0.890
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	269 / 0.400	269 / 0.400
Total	9 / 0.090	80 / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	269 / 0.400	358 / 1.290

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0532 / H-1 Series
		Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: External Lights Upgrades (UH-1Y/AH-1Z)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	9	-	26	27	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	269	358
Out	9	-	-	26	27	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	269	358

Method of Implementation: [none specified]:: Installation Name: T700-401C (AH-1Z Reman)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 1.600	36 / 1.600
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 1.600	36 / 1.600

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	-	36
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	-	36

Method of Implementation (Organic): Slip Ring/Standpipe (UH-1Y/AH-1Z) - Not Installed

Installation Quantity: 349

Method of Implementation (Organic): Canopy Frames (AH-1W/Z) - Not Installed

Installation Quantity: 100

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Modification Item 1 of 1: H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

Installation Information

Method of Implementation (Organic): Heat Exchange Airframe Mounting Mod (UH-1Y/AH-1Z) - Not Installed	Installation Quantity: 64
Method of Implementation (Organic): Tail Rotor Drive Shaft (TRDS) Clearance Improvements (UH-1Y/AH-1Z) - Not Installed	Installation Quantity: 349
Method of Implementation (Organic): Tailboom Stinger (UH-1Y/AH-1Z) - Not Installed	Installation Quantity: 156
Method of Implementation (Organic): Cargo Door Latch (UH-1Y) - Not Installed	Installation Quantity: 148
Method of Implementation (Organic): Swashplate Clamp Rings (UH-1Y/AH-1Z) - Not Installed	Installation Quantity: 295
Method of Implementation (Organic): Structures Improvements (UH-1Y) - Not Installed	Installation Quantity: 160
Method of Implementation (Organic): External Lights (AH-1Z) - Not Installed	Installation Quantity: 189
Method of Implementation (Organic): External Lights (UH-1Y) - Not Installed	Installation Quantity: 160
Method of Implementation (Organic): Mission Grip Mount (AH-1Z) - Not Installed	Installation Quantity: 189
Method of Implementation (Organic): Composite Elevator (UH-1Y/AH-1Z) - Not Installed	Installation Quantity: 265
Method of Implementation (Organic): Structures Improvements (UH-1Y) - Not Installed	Installation Quantity: 160

Footnotes:

- (15) FY2016 Installation Kit NR increase is required to support Avionics Cooling.
- (16) FY2016 Install Equipment N/R for integration engineering of required safety upgrade to aircrew restraint system in response to operational mishap.
- (17) Other Support includes government engineering support for all modifications.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 4 / INACTIVE OSIPS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	285.029	-	-	-	-	-	-	-	-	-	-	285.029
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	285.029	-	-	-	-	-	-	-	-	-	-	285.029
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	285.029	-	-	-	-	-	-	-	-	-	-	285.029
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 4 / INACTIVE OSIPS			
Models of Systems Affected: [No Model Specified]					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> INACTIVE OSIPS													
A Kits													
Recurring													
1.1.1) Inactive OSIPs - Organic	- / 285.029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 285.029	
<i>Subtotal: Recurring</i>	- / 285.029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 285.029	
<i>Subtotal: INACTIVE OSIPS</i>	- / 285.029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 285.029	
<i>Subtotal: Procurement, All Modification Items</i>	- / 285.029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 285.029	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	285.029	-	-	-	-	-	-	-	-	-	-	285.029	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 4 / INACTIVE OSIPS
Modification Item 1 of 1: INACTIVE OSIPS		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0537 / EP-3 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,254.095	67.845	48.084	14.681	7.505	22.186	7.260	7.511	7.668	7.822	3.200	1,425.671
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,254.095	67.845	48.084	14.681	7.505	22.186	7.260	7.511	7.668	7.822	3.200	1,425.671
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,254.095	67.845	48.084	14.681	7.505	22.186	7.260	7.511	7.668	7.822	3.200	1,425.671

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in EP-3 SERIES by \$0.626M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

This line item funds modifications to the EP-3E aircraft. The EP-3E is a land based, long range aircraft with electronic intercept devices for detection and tracking of enemy Radio Detection and Ranging and communications.

In Operational, Safety and Improvement Program (OSIP) 11-01, the Spiral 1 kit improved operational capability and aircrew productivity by expanding the Electronic Support Measures frequency coverage, applying state-of-the-art signal exploitation/processing/display techniques, expanding Direction Finding frequency coverage, off-board classified communication, and expanding special signal processing capability. Spiral 3 procurement provides Low Band Communication System Upgrades, Information Operations capability, Environmental Control System modifications, Quick Reaction Capabilities and the replacement of aging and obsolescence aircraft antenna arrays. OSIP 14-05 responds to the current, immediate demand for information operations capabilities on the EP-3E in Overseas Contingency Operations (OCO).

Research and Development is funded with National Security Agency (NSA) Military Intelligence Program (MIP) funds. This OSIP provides the procurement tail for Research, Development, Test and Evaluation (RDT&E) funds from the Navy's Advanced Signal Recognition line (Program Element 0305206N). The NSA RDT&E line for the Navy Airborne Sensor System Improvements funds sensor improvements with application for the EP-3E. MIP RDT&E funds are responsible for the development and acquisition of EP-3E sensors, data links, data relays and ground stations to achieve and maintain interoperability with Defense-wide airborne reconnaissance assets. Active Primary Aircraft Authorization inventory is 12. Funds budgeted in FY2015-FY2021 are to continue EP-3E Joint Airborne Signal Intelligence Architecture Modification Common Configuration Program. The EP-3E has an average age of 38.5 years. The EP-3E service life will be managed through Special Structural Inspection - Kits, Outer Wing Replacement and other aircraft sustainment activities in the P3 Series Modification program (Budget Line Item 0538, OSIP 05-05).

[P3A / JSAF Modification (JMOD) - OSIP 11-01]: FY15 through FY21 NRE, ECO, Data, Training Equipment and Support Equipment supports EP-3E Obsolescence issues.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0537 / EP-3 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / JSAF Modification (JMOD) - OSIP 11-01 (Operational Improvement / Modernization)			- / 711.944	- / 32.890	- / 41.784	- / 14.681	- / -	- / 14.681
P-3a	2 / EP-3E Info Operations - OSIP 14-05 (Operational Improvement / Modernization)			- / 162.240	- / 34.955	- / 6.300	- / -	- / 7.505	- / 7.505
P-3a	3 / Inactive OSIPS (Operational Improvement / Modernization)			- / 379.911	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 1,254.095	- / 67.845	- / 48.084	- / 14.681	- / 7.505	- / 22.186

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / JSAF Modification (JMOD) - OSIP 11-01 (Operational Improvement / Modernization)			- / 7.260	- / 7.511	- / 7.668	- / 7.822	- / 3.200	- / 834.760
P-3a	2 / EP-3E Info Operations - OSIP 14-05 (Operational Improvement / Modernization)			- / -	- / -	- / -	- / -	- / -	- / 211.000
P-3a	3 / Inactive OSIPS (Operational Improvement / Modernization)			- / -	- / -	- / -	- / -	- / -	- / 379.911
P-40	Total Gross/Weapon System Cost			- / 7.260	- / 7.511	- / 7.668	- / 7.822	- / 3.200	- / 1,425.671

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
OCO:
FY2017 OCO Request for Advanced Signal Collection Equipment (ASCE). Effort procures and rapidly integrates ASCE required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO).
FY2017 OCO funds will enhance previous OCO funded installations on EP-3E aircraft. Specific operational details can be provided in a classified forum.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0537 / EP-3 Series				Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	711.944	32.890	41.784	14.681	-	14.681	7.260	7.511	7.668	7.822	3.200	834.760
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	711.944	32.890	41.784	14.681	-	14.681	7.260	7.511	7.668	7.822	3.200	834.760
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	711.944	32.890	41.784	14.681	-	14.681	7.260	7.511	7.668	7.822	3.200	834.760

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The EP-3E Joint Airborne Signal Intelligence Architecture Modification Common Configuration (JCC) Program is an upgrade to the capabilities of the Sensor System Improvement Program (SSIP) configuration of the EP-3E. This Operational, Safety and Improvement Program (OSIP) responds to Operational Requirements Document (ORD) #571-78-01 and the CAPSTONE ORD #CAF-002-88. JCC is designed as an evolutionary acquisition program consisting of spiral upgrades. JCC Spirals include an updated EP-3E infrastructure, improved auto-Electronic Support Measures (ESM) with the Story Finder system, incorporated Joint Signal Processor, incorporated SSIP corrections, incorporated low band capability which improves special collection capability, Information Operations and incorporated Quick Reaction Capabilities (QRC). Data Fusion capability is currently deferred. This OSIP also allows the EP-3E the flexibility to react in real time against current and new emerging threats with the most sophisticated equipment available. This flexibility allows upgrades to current aircraft and training systems, modernization of computer / software based applications and will maintain Information Assurance requirements as upgrades are performed to support critical missions deemed vital to our national security.

In OSIP 11-01, the Spiral 1 ForceNet kit improved operational capability and aircrew productivity by expanding the ESM frequency coverage, applying state-of-the-art signal exploitation/processing/display techniques, expanding Direction Finding frequency coverage, off-board classified communication, and expanding special signal processing capability. Spiral 3 procurement began in FY11 with Low Band Communication System Upgrades, IO capability, Environmental Control System modification, QRC and the replacement of aging and obsolescence aircraft antenna arrays. QRC funds address mission avionics system obsolescence and emerging requirements. This OSIP includes JCC Obsolescence funding to replace subsystem obsolescence to ensure EP-3E viability until aircraft recapitalization. JCC Obsolescence and ILS are aligned to meet Electronic Intelligence, Communications Intelligence, Communications, Mission Management and Special Signals obsolescence requirements in order to support EP mod transition to Multi-INT Family of Systems (FoS).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

JCC Spiral 1 Low Rate Initial Production (LRIP) decision was approved as planned on 06 June 2005 and Full Rate Production decision and contract awarded 4th Quarter of FY06
 JCC Spiral 2 was deferred
 JCC Spiral 3 LRIP decision was approved on 25 February 2011

NOTES:

- 1) Other Support includes Navy Test for Obsolescence
- 2) Install Schedule based on Projected Aircraft Availability
- 3) Obsolescence quantities include various mission equipment quantities
- 4) FY-15 through FY-21 NRE, ECO, Data, Training Equipment and Support Equipment supports EP-3E Obsolescence issues.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0537 / EP-3 Series					Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01			
Models of Systems Affected: EP-3E				Modification Type: Operational Improvement / Modernization				Related RDT&E PEs: 0305206N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: JSAF Modification (JMOD) - OSIP 11-01</i>													
A Kits													
Recurring													
1.1.1) Prior Year Archive - Organic	- / 21.799	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.799	
1.1.2) JMOD Common SP3 - NonOrganic	12 / 25.952	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 25.952	
<i>Subtotal: Recurring</i>	<i>- / 47.751</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 47.751</i>	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 23.465	- / 1.000	- / 1.000	- / 0.500	- / -	- / 0.500	- / 0.200	- / 0.200	- / 0.100	- / 0.100	- / -	- / 26.565	
<i>Subtotal: Non-Recurring</i>	<i>- / 23.465</i>	<i>- / 1.000</i>	<i>- / 1.000</i>	<i>- / 0.500</i>	<i>- / -</i>	<i>- / 0.500</i>	<i>- / 0.200</i>	<i>- / 0.200</i>	<i>- / 0.100</i>	<i>- / 0.100</i>	<i>- / -</i>	<i>- / 26.565</i>	
B Kits													
Recurring													
2.1.1) Prior Year Archive - Organic	- / 131.512	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 131.512	
2.1.2) JMOD Common SP3 - Organic	9 / 47.296	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 47.296	
<i>Subtotal: Recurring</i>	<i>- / 178.808</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 178.808</i>	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 144.391	- / 0.800	- / 0.800	- / 0.500	- / -	- / 0.500	- / 0.200	- / 0.200	- / 0.100	- / 0.100	- / -	- / 147.091	
<i>Subtotal: Non-Recurring</i>	<i>- / 144.391</i>	<i>- / 0.800</i>	<i>- / 0.800</i>	<i>- / 0.500</i>	<i>- / -</i>	<i>- / 0.500</i>	<i>- / 0.200</i>	<i>- / 0.200</i>	<i>- / 0.100</i>	<i>- / 0.100</i>	<i>- / -</i>	<i>- / 147.091</i>	
<i>Subtotal: JSAF Modification (JMOD) - OSIP 11-01</i>	<i>21 / 294.415</i>	<i>- / 1.800</i>	<i>- / 1.800</i>	<i>- / 1.000</i>	<i>- / -</i>	<i>- / 1.000</i>	<i>- / 0.400</i>	<i>- / 0.400</i>	<i>- / 0.200</i>	<i>- / 0.200</i>	<i>- / -</i>	<i>21 / 300.215</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 294.415</i>	<i>- / 1.800</i>	<i>- / 1.800</i>	<i>- / 1.000</i>	<i>- / -</i>	<i>- / 1.000</i>	<i>- / 0.400</i>	<i>- / 0.400</i>	<i>- / 0.200</i>	<i>- / 0.200</i>	<i>- / -</i>	<i>- / 300.215</i>	
Support (All Modification Items)													
3.2) JCC Obsolescence ⁽¹⁾	- / 151.845	- / 17.991	- / 18.460	- / 6.973	- / -	- / 6.973	- / 2.944	- / 3.165	- / 3.329	- / 3.480	- / -	- / 208.187	
3.3) QRC	- / 0.931	- / 0.947	- / 0.850	- / 0.865	- / -	- / 0.865	- / 0.880	- / 0.880	- / 0.880	- / 0.880	- / -	- / 7.113	
3.4) Data	- / 13.449	- / 11.000	- / 11.000	- / 10.100	- / -	- / 10.100	- / 10.100	- / 10.100	- / 10.050	- / 10.050	- / -	- / 15.849	
3.5) Training Equipment	- / 14.737	- / 1.000	- / 1.000	- / 0.600	- / -	- / 0.600	- / 0.639	- / 0.639	- / 0.639	- / 0.639	- / -	- / 19.893	
3.6) Support Equipment	- / 16.020	- / 1.000	- / 1.000	- / 0.200	- / -	- / 0.200	- / 0.200	- / 0.200	- / 0.100	- / 0.100	- / -	- / 18.820	
3.7) ILS	- / 27.822	- / 1.702	- / 1.600	- / 0.500	- / -	- / 0.500	- / 0.809	- / 0.787	- / 0.778	- / 0.778	- / -	- / 34.776	
3.8) Other Support	- / 103.995	- / 3.296	- / 2.174	- / 1.648	- / -	- / 1.648	- / 0.488	- / 0.491	- / 0.493	- / 0.496	- / -	- / 113.081	
<i>Subtotal: Support</i>	<i>- / 328.799</i>	<i>- / 26.936</i>	<i>- / 26.084</i>	<i>- / 10.886</i>	<i>- / -</i>	<i>- / 10.886</i>	<i>- / 6.060</i>	<i>- / 6.262</i>	<i>- / 6.269</i>	<i>- / 6.423</i>	<i>- / -</i>	<i>- / 417.719</i>	
Installation													

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01

Models of Systems Affected: EP-3E	Modification Type: Operational Improvement / Modernization	Related RDT&E PEs: 0305206N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Modification Item 1 of 1: JSAF Modification (JMOD) - OSIP 11-01	- / 88.730	- / 4.154	- / 13.900	- / 2.795	- / -	- / 2.795	- / 0.800	- / 0.849	- / 1.199	- / 1.199	- / 3.200	- / 116.826
<i>Subtotal: Installation</i>	- / 88.730	- / 4.154	- / 13.900	- / 2.795	- / -	- / 2.795	- / 0.800	- / 0.849	- / 1.199	- / 1.199	- / 3.200	- / 116.826
Total												
Total Cost (Procurement + Support + Installation)	711.944	32.890	41.784	14.681	-	14.681	7.260	7.511	7.668	7.822	3.200	834.760

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01

Modification Item 1 of 1: JSAF Modification (JMOD) - OSIP 11-01

Manufacturer Information

Manufacturer Name: L-3 - Spiral 3 ⁽²⁾				Manufacturer Location: Waco, Texas			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Dec 2015					
Delivery Dates		Aug 2016					

Manufacturer Name: TBD - Obsolescence ECP's ⁽³⁾				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates	Feb 2015	Feb 2016	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021

Installation Information

Method of Implementation: Commercial Contractor Installation:: Installation Name: JMOD Common SP3

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	10 / 55.880	- / -	1 / 3.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.200	12 / 62.280
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10 / 55.880	- / -	1 / 3.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.200	12 / 62.280

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01

Modification Item 1 of 1: JSAF Modification (JMOD) - OSIP 11-01

Installation Information

Method of Implementation: Commercial Contractor Installation:: Installation Name: JMOD Common SP3

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	10	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	12
Out	9	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	12

Method of Implementation: Navy Field Mod Team:: Installation Name: JCC Obsolescence

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 32.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / 32.850
FY 2015	- / -	- / 4.154	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.154
FY 2016	- / -	- / -	- / 10.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.700
FY 2017	- / -	- / -	- / -	- / 12.795	- / -	- / 12.795	- / -	- / -	- / -	- / -	- / -	- / 12.795
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.800	- / -	- / -	- / -	- / -	- / 0.800
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.849	- / -	- / -	- / -	- / 0.849
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.199	- / 1.199	- / -	- / 1.199
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 32.850	- / 4.154	- / 10.700	- / 12.795	- / -	- / 12.795	- / 0.800	- / 0.849	- / 1.199	- / 1.199	- / -	1 / 54.546

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Method of Implementation (Organic): JMOD Common SP3 - Not Installed

Installation Quantity: 9

Footnotes:

⁽¹⁾ Added Remark: P-3A In/Out for Total Prior Years should be blank, set to 1 as a workaround.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01

- (2) Install Schedule based on projected aircraft availability
- (3) OBS quantities include various mission equipment quantities.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0537 / EP-3 Series				Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	162.240	34.955	6.300	-	7.505	7.505	-	-	-	-	-	211.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	162.240	34.955	6.300	-	7.505	7.505	-	-	-	-	-	211.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	162.240	34.955	6.300	-	7.505	7.505	-	-	-	-	-	211.000

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program responds to the current, immediate demand for information operations capabilities on the EP-3E in the Overseas Contingency Operations (OCO) and has been funded via the Emergency Supplemental Appropriation for Defense.

This EP-3E Information Operations program will procure the necessary modifications for EP-3E aircraft to selectively conduct offensive intelligence operations. This requirement was originally identified by Commander U.S. Fifth Fleet (US Navy) N3//11715332OCT02 for Operation Enduring Freedom. The requirement was further identified by Commander Naval Forces - Iraq (021101ZNOV04) and endorsed by United States Central Command (CCJ3-P//091619ZNOV4), United States Naval Forces, Central Command (CENTCOM) (111332ZNOV04) and Commander, U.S. Fleet Forces Command (122012ZNOV04).

FY2015 OCO Request for Special Collection and Cyber (SCC) Equipment effort procures and rapidly integrates systems required to conduct COCOM directed missions in support of OCOs. Specific operational details can be provided in a classified forum.

FY2015 OCO Request for All Conditions Exploitation System (ACES) effort procures and rapidly integrates All Conditions Exploitation System (ACES). Capabilities include all weather, day-night surveillance capable Video Synthetic Aperture Radar (SAR), VideoSAR, Ground Moving Target Indicator (GMTI), Coherent Change Detection (CCD), and Maritime Collect (MC) modes to conduct COCOM directed missions in support of OCOs. Specific operational details can be provided in a classified forum.

FY2016 OCO Request for Airborne Collection & Measurement Equipment (ACME). Effort procures and rapidly integrates ACME required to conduct COCOM directed missions in support of Operation Freedom's Sentinel (OFS).

FY2017 OCO Request for Advanced Signal Collection Equipment (ASCE). Effort procures and rapidly integrates ASCE required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO). FY2017 funds will enhance previous OCO funded installations on EP-3E aircraft. Specific operational details can be provided in a classified forum.

NOTES:

- 1) 2 Val/Ver Kits are not included in CDL Installs
- 2) FY15 SeaVue Installs funded with FY14 OCO
- 3) FY16 ACES and SCC Installs funded with FY15 OCO
- 4) FY17 ACME Installs funded with FY16 OCO
- 5) SeaVue B-Kits will be used as mission specific and not required on all aircraft.
- 6) 2 Val/Ver Kits are not included in ASCE A-Kits or Installs
- 7) FY18 ASCE Installs funded with FY17 OCO

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05
8) 2 Val/Ver Kits are not included in ACME A-Kits		

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0537 / EP-3 Series					Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05			
Models of Systems Affected: EP-3E					Modification Type: Operational Improvement / Modernization					Related RDT&E PEs: 0305206N			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: EP-3E Info Operations - OSIP 14-05													
A Kits													
Recurring													
1.1.1) Special Collection and Cyber (SCC) Equipment - NonOrganic ⁽⁴⁾	- / -	12 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.600	
1.1.2) All Conditions Exploitation System (ACES) - NonOrganic ⁽⁵⁾	- / -	5 / 2.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.250	
1.1.3) SeaVue - NonOrganic	12 / 2.333	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.333	
1.1.4) Airborne Collection & Measurement Equipment (ACME) - NonOrganic ⁽⁶⁾	- / -	- / -	12 / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.700	
1.1.5) Advanced Signal Collection Equipment (ASCE) - NonOrganic ⁽⁷⁾	- / -	- / -	- / -	- / -	12 / 0.600	12 / 0.600	- / -	- / -	- / -	- / -	- / -	12 / 0.600	
1.1.6) ARCHIVED ECPs - Organic	34 / 102.737	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 102.737	
Subtotal: Recurring	- / 105.070	- / 2.850	- / 0.700	- / -	- / 0.600	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / 109.220	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 8.660	- / 1.450	- / 0.498	- / -	- / 0.335	- / 0.335	- / -	- / -	- / -	- / -	- / -	- / 10.943	
Subtotal: Non-Recurring	- / 8.660	- / 1.450	- / 0.498	- / -	- / 0.335	- / 0.335	- / -	- / -	- / -	- / -	- / -	- / 10.943	
B Kits													
Recurring													
2.1.1) Special Collection and Cyber (SCC) Equipment - Organic	- / -	12 / 2.460	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.460	
2.1.2) All Conditions Exploitation System (ACES) - Organic	- / -	5 / 22.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 22.500	
2.1.3) SeaVue - Organic	10 / 15.925	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 15.925	
2.1.4) Airborne Collection & Measurement Equipment (ACME) - Organic	- / -	- / -	14 / 3.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 3.192	
2.1.5) Advanced Signal Collection Equipment (ASCE) - Organic	- / -	- / -	- / -	- / -	14 / 4.900	14 / 4.900	- / -	- / -	- / -	- / -	- / -	14 / 4.900	
Subtotal: Recurring	- / 15.925	- / 24.960	- / 3.192	- / -	- / 4.900	- / 4.900	- / -	- / -	- / -	- / -	- / -	- / 48.977	
Non-Recurring													
2.2.1) Install Equipment N/R - Organic	- / 3.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.050	
Subtotal: Non-Recurring	- / 3.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.050	
Subtotal: EP-3E Info Operations - OSIP 14-05	56 / 132.705	34 / 29.260	26 / 4.390	- / -	26 / 5.835	26 / 5.835	- / -	- / -	- / -	- / -	- / -	142 / 172.190	

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0537 / EP-3 Series **Modification Number / Title:** 2 / EP-3E Info Operations - OSIP 14-05

Models of Systems Affected: EP-3E **Modification Type:** Operational Improvement / Modernization **Related RDT&E PEs:** 0305206N

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Procurement, All Modification Items</i>	- / 132.705	- / 29.260	- / 4.390	- / -	- / 5.835	- / 5.835	- / -	- / -	- / -	- / -	- / -	- / 172.190
Support (All Modification Items)												
3.2) Surge ECO	- / 6.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.000
3.3) Data	- / 0.081	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.081
3.4) Training Equipment	- / 1.886	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.886
3.5) Support Equipment	- / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.100
3.6) ILS	- / 1.037	- / 0.330	- / 0.030	- / -	- / 0.220	- / 0.220	- / -	- / -	- / -	- / -	- / -	- / 1.617
3.7) Other Support	- / 12.757	- / 0.815	- / 0.200	- / -	- / 0.250	- / 0.250	- / -	- / -	- / -	- / -	- / -	- / 14.022
<i>Subtotal: Support</i>	- / 22.861	- / 1.145	- / 0.230	- / -	- / 0.470	- / 0.470	- / -	- / -	- / -	- / -	- / -	- / 24.706
Installation												
<i>Modification Item 1 of 1: EP-3E Info Operations - OSIP 14-05</i>	- / 6.674	- / 4.550	- / 1.680	- / -	- / 1.200	- / 1.200	- / -	- / -	- / -	- / -	- / -	- / 14.104
<i>Subtotal: Installation</i>	- / 6.674	- / 4.550	- / 1.680	- / -	- / 1.200	- / 1.200	- / -	- / -	- / -	- / -	- / -	- / 14.104
Total												
Total Cost (Procurement + Support + Installation)	162.240	34.955	6.300	-	7.505	7.505	-	-	-	-	-	211.000

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Exhibit P-3a, Individual Modification: PB 2017 Navy						Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0537 / EP-3 Series			Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05	
Modification Item 1 of 1: EP-3E Info Operations - OSIP 14-05							
Manufacturer Information							
Manufacturer Name: TBD - SCC Equipment				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016					
Delivery Dates	Jun 2015	Jun 2016					
Manufacturer Name: TBD - ACES				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016					
Delivery Dates	Jun 2015	Jun 2016					
Manufacturer Name: TBD - SeaVue				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016					
Delivery Dates	Jun 2015	Jun 2016					
Manufacturer Name: TBD - ACME				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017				
Delivery Dates		Jun 2016	Jun 2017				
Manufacturer Name: TBD - ASCE				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017	Jan 2018			
Delivery Dates			Jun 2017	Jun 2018			

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05

Modification Item 1 of 1: EP-3E Info Operations - OSIP 14-05

Installation Information

Method of Implementation: Navy Field Mod Team:: Installation Name: Special Collection and Cyber (SCC) Equipment

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	5 / 1.800	7 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.800
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	5 / 1.800	7 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.800

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	2	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Out	-	-	-	-	2	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12

Method of Implementation: Navy Field Mod Team:: Installation Name: All Conditions Exploitation System (ACES)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	2 / 2.750	3 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.750
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	2 / 2.750	3 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.750

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05

Modification Item 1 of 1: EP-3E Info Operations - OSIP 14-05

Installation Information

Method of Implementation: Navy Field Mod Team:: Installation Name: All Conditions Exploitation System (ACES)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	
Out	-	-	-	-	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	

Method of Implementation: Navy Field Mod Team:: Installation Name: SeaVue

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 6.674	6 / 0.000	6 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	12 / 6.674
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 6.674	6 / -	6 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 6.674

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	
Out	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	

Method of Implementation: Navy Field Mod Team:: Installation Name: Airborne Collection & Measurement Equipment (ACME)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05

Modification Item 1 of 1: EP-3E Info Operations - OSIP 14-05

Installation Information

Method of Implementation: Navy Field Mod Team:: Installation Name: Airborne Collection & Measurement Equipment (ACME)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	7 / 1.680	7 / -	- / -	7 / -	- / -	- / -	- / -	- / -	- / -	14 / 1.680
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	7 / 1.680	7 / -	- / -	7 / -	- / -	- / -	- / -	- / -	- / -	14 / 1.680

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	3	4	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Out	-	-	-	-	-	-	-	3	4	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14

Method of Implementation: [none specified]:: Installation Name: Advanced Signal Collection Equipment (ASCE)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	6 / 1.200	6 / 1.200	6 / -	- / -	- / -	- / -	- / -	12 / 1.200
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	6 / 1.200	6 / 1.200	6 / -	- / -	- / -	- / -	- / -	12 / 1.200

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 2 / EP-3E Info Operations - OSIP 14-05

Modification Item 1 of 1: EP-3E Info Operations - OSIP 14-05

Installation Information

Method of Implementation: [none specified]:: Installation Name: Advanced Signal Collection Equipment (ASCE)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Out	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12

Method of Implementation (Organic): ARCHIVED ECPs - Not Installed **Installation Quantity:** 34

Method of Implementation (Organic): Special Collection and Cyber (SCC) Equipment - Not Installed **Installation Quantity:** 12

Method of Implementation (Organic): All Conditions Exploitation System (ACES) - Not Installed **Installation Quantity:** 5

Method of Implementation (Organic): SeaVue - Not Installed **Installation Quantity:** 10

Method of Implementation (Organic): Airborne Collection & Measurement Equipment (ACME) - Not Installed **Installation Quantity:** 14

Method of Implementation (Organic): Advanced Signal Collection Equipment (ASCE) - Not Installed **Installation Quantity:** 14

Footnotes:

- (4) FY-16 SCC Installs funded with FY-15 OCO
- (5) FY-16 ACES Installs funded with FY-15 OCO
- (6) FY-17 ACME Installs are funded with FY-16 OCO
- (7) FY-18 ASCE Installs are funded with FY-17 OCO

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 3 / Inactive OSIPS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	379.911	-	-	-	-	-	-	-	-	-	-	379.911
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	379.911	-	-	-	-	-	-	-	-	-	-	379.911
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	379.911	-	-	-	-	-	-	-	-	-	-	379.911
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 3 / Inactive OSIPS

Models of Systems Affected: EP-3E	Modification Type: Operational Improvement / Modernization	Related RDT&E PEs: 0305206N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: N/A</i>												
<i>Subtotal: N/A</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Support (All Modification Items)												
3.1) Inactive OSIPS	- / 379.911	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 379.911
<i>Subtotal: Support</i>	- / 379.911	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 379.911
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	379.911	-	-	-	-	-	-	-	-	-	-	379.911

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 3 / Inactive OSIPS
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Modification Item 1 of 1: N/A

Manufacturer Information

Manufacturer Name: N/A	Manufacturer Location: N/A
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Administrative Leadtime (<i>in Months</i>):	Production Leadtime (<i>in Months</i>):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Support Only Installation	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0538 / P-3 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,901.052	2.658	3.067	2.781	-	2.781	2.986	-	-	-	-	4,912.544
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,901.052	2.658	3.067	2.781	-	2.781	2.986	-	-	-	-	4,912.544
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,901.052	2.658	3.067	2.781	-	2.781	2.986	-	-	-	-	4,912.544

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in P-3 SERIES by \$0.117M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

This line item funds modifications to P-3 aircraft. The P-3 Orion is a four turbo-prop engine, long-range maritime surveillance aircraft which performs Under Sea Warfare, Surface Warfare and Intelligence, Surveillance and Reconnaissance in support of battle group and littoral operations in direct support of Sea Shield and Forcenet pillars of Seapower 21.

A key investment area is P-3 Mod Programs. Funding for these programs support a multitude of obsolescence, structural, sustainment, training/logistics and warfighting capability upgrades that are key in keeping the P-3 platform relevant through Multi-mission Maritime Aircraft (MMA) Initial Operational Capability of 2013 and until the projected MMA Full Operational Capability of 2019 (and beyond for Block Mod Upgrade Program and EP-3 configurations). P-3 aircraft mods funded under the Aircraft Procurement, Navy line have heavily supported recent and current Operation Enduring Freedom, Operation Iraqi Freedom and Overseas Contingency Operations (OCO). Without key technology upgrades and aggressive obsolescence management, P-3 aircraft will be unable to meet Fleet Response Plan requirements, leaving key Seapower 21 capabilities in support of the Combatant Commanders at risk. This P-3 Sustainment Bridge provides a roadmap ensuring sufficient P-3 assets for Fleet and Combatant Commanders to fulfill operational and training/readiness requirements.

The overall goal of the modifications budgeted in FY2017 (as approved via 5 year rule waivers) is to continue aircraft sustainment, including: USQ-78 improvements (part of UpdateIII), comm/nav/surveillance weapon system improvements, upgrades/modifications to airframe components/systems (including outer wing replacements), safety improvements and key system obsolescence upgrades.

[P3A - 3 / P-3 MISSION SYSTEMS(OSIP 006-08)]: FY-17 and FY-18 P-3 obsolescence upgrades addresses obsolescence issues on 18 BMUP aircraft. BMUP aircraft are supporting the Littoral Surveillance Radar System (LSRS) mission through 2023.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0538 / P-3 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / ASUW IMPROV. PROG.(OSIP 029-94) (Operational Improvement)			- / 1,479.609	- / -	- / -	- / -	- / -	- / -
P-3a	2 / SSI-K(OSIP 005-05) (Sustainment)			- / 1,395.230	- / 0.500	- / -	- / -	- / -	- / -
P-3a	3 / P-3 MISSION SYSTEMS(OSIP 006-08) (Operational Improvement)			- / 43.283	- / 2.158	- / 3.067	- / 2.781	- / -	- / 2.781
P-3a	4 / Inactive OSIPs (TBD)			- / 1,982.930	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 4,901.052	- / 2.658	- / 3.067	- / 2.781	- / -	- / 2.781

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / ASUW IMPROV. PROG.(OSIP 029-94) (Operational Improvement)			- / -	- / -	- / -	- / -	- / -	- / 1,479.609
P-3a	2 / SSI-K(OSIP 005-05) (Sustainment)			- / -	- / -	- / -	- / -	- / -	- / 1,395.730
P-3a	3 / P-3 MISSION SYSTEMS(OSIP 006-08) (Operational Improvement)			- / 2.986	- / -	- / -	- / -	- / -	- / 54.275
P-3a	4 / Inactive OSIPs (TBD)			- / -	- / -	- / -	- / -	- / -	- / 1,982.930
P-40	Total Gross/Weapon System Cost			- / 2.986	- / -	- / -	- / -	- / -	- / 4,912.544

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The budget supports the remaining P-3 variants through 2018 in order to complete the P-8 transition, and has been optimized for 55 AIP+, 12 EP-3, and 18 BMUP configured aircraft.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0538 / P-3 Series				Modification Number / Title: 1 / ASUW IMPROV. PROG.(OSIP 029-94)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,479.609	-	-	-	-	-	-	-	-	-	-	1,479.609
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,479.609	-	-	-	-	-	-	-	-	-	-	1,479.609
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,479.609	-	-	-	-	-	-	-	-	-	-	1,479.609
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Navy's Maritime Patrol and Reconnaissance Force (primarily P-3C Orion aircraft) provides three deliverables to Navy and joint commanders worldwide: Undersea warfare; Intelligence Surveillance, and Reconnaissance; and Maritime Surveillance Targeting. The Anti-Surface Warfare (ASuW) Improvement Program meets the Navy's requirement to rapidly provide a significant increase in the current P-3's ability to perform Anti-Submarine Warfare (ASW), ASuW, Over-the-Horizon Targeting, and Command, Control, Communications, Computers, and Intelligence (C4I). The target aircraft for this modification are P-3C Update II/II.5 and Update III. This modification focuses on improving the weapon system's capability for standoff targeting and classification. Significant sensor improvements and capabilities are provided by the APS-137D (V) 5 imaging radar, the Advanced Imaging Multi-Spectral Sensor (AIMS) electro optical/infrared system, and Electronic Support Measures (ESM) upgrades that include Specific Emitter Identification (SEI), SEI Utility Improvement, ALR-95, improved pulse processing, and Direction Finder accuracy. C4I is improved with a Demand Assigned Multiple Access (DAMA) Satcom radio suite and Multi-mission Advanced Tactical Terminal (MATT) that can receive the Officer in Tactical Command Information Exchange System, and other fleet broadcasts. Additional planned Phased Capability Upgrade (PCU) improvements include the Maritime Surveillance Targeting (MST) capability as well as Tactical Common Data Link (TCDL). Survivability enhancements include the ALE-47/AAR-47 missile warning countermeasures, explosive suppressant foam, and small circular area of probability weapon system (Maverick, Standoff Land Attack Missile (SLAM), SLAM-Expanded Response, and provisions to carry and launch all Mil Std 1760 Digital weapons. The P3 AIP operational requirement document (ORD) is Ser # 355-88-94. Future Engineering Change Proposals (ECPs) are anticipated for the existing systems including APS-137 radar; AIMS Electro-Optical/Infrared; MATT; Link 16; Global Communication & Control System - Maritime (GCCS-M); Precision Targeting Workstation (PTW); OASIS; Video Distribution Controller; Tactical Mission Computer; ALR-95 ESM; DAMA Satcom; MST; TC DL; Recorders including the High Resolution Digital Recorder; ALE47/AAR47; Digital Stores Management System (DSMS); all weapon systems including missiles, torpedoes, mines, as well as acoustic system upgrades. The ASW Maritime Improvement Program (AMIP) will provide for Mission System Sustainment, ASW improvements and improved C4I systems including International Marine/Maritime Surveillance/Integrated Tactical Picture (ITP), and High Frequency Internet Protocol (HFIP), FY11 Overseas Contingency Operations (OCO) provided funds for Full Motion Video (FMV) Metadata.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

This modification makes maximum use of previously developed subsystems.

Notes:

1. The cost of "A" and "B" kits for all kits (except TC DL) not separately priced.
2. Install unit cost dependent on number of installs accomplished by Government and Contractor install teams.
3. Two HF-IP Kits are to be installed in trainers and one in the Program Hardware Integration Center.
4. Full Motion Video (FMV) Metadata kits are "O" level installs with no associated cost, therefore, no installation schedule is provided.
5. FY15 C4 for ASW Link-16 installs funded with FY14 Baseline

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0538 / P-3 Series					Modification Number / Title: 1 / ASUW IMPROV. PROG.(OSIP 029-94)			
Models of Systems Affected: P-3C				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: ASUW IMPROV. PROG. (OSIP 029-94)</i>													
A Kits													
Recurring													
1.1.1) Prior Year Kits - Organic	115 / 385.545	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 385.545	
<i>Subtotal: Recurring</i>	<i>- / 385.545</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 385.545</i>	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 142.079	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 142.079	
<i>Subtotal: Non-Recurring</i>	<i>- / 142.079</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 142.079</i>	
B Kits													
Recurring													
2.1.1) C4 FOR ASW LINK-16 - NonOrganic	55 / 32.932	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 32.932	
2.1.2) Prior Year Archive - Organic	- / 540.357	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 540.357	
<i>Subtotal: Recurring</i>	<i>- / 573.289</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 573.289</i>	
Non-Recurring													
2.2.1) Install Equipment N/R - Organic	- / 102.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 102.080	
<i>Subtotal: Non-Recurring</i>	<i>- / 102.080</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 102.080</i>	
<i>Subtotal: ASUW IMPROV. PROG. (OSIP 029-94)</i>	<i>170 / 1,102.993</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>170 / 1,102.993</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 1,102.993</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1,102.993</i>	
Support (All Modification Items)													
3.1) ECO	- / 37.376	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.376	
3.2) Data	- / 18.984	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.984	
3.3) Training Equipment	- / 86.119	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 86.119	
3.4) Support Equipment	- / 14.467	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.467	
3.5) ILS	- / 17.917	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.917	
3.6) ILS (FMV OCO)	- / 0.263	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.263	
3.7) Other Support	- / 192.127	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 192.127	
3.8) Other Support (FMV OCO)	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	
<i>Subtotal: Support</i>	<i>- / 367.553</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 367.553</i>	
Installation													

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0538 / P-3 Series	Modification Number / Title: 1 / ASUW IMPROV. PROG.(OSIP 029-94)

Models of Systems Affected: P-3C	Modification Type: Operational Improvement	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Modification Item 1 of 1:</i> ASUW IMPROV. PROG.(OSIP 029-94)	- / 9.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.063
<i>Subtotal: Installation</i>	- / 9.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.063
Total												
Total Cost (Procurement + Support + Installation)	1,479.609	-	-	-	-	-	-	-	-	-	-	1,479.609

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0538 / P-3 Series	Modification Number / Title: 1 / ASUW IMPROV. PROG.(OSIP 029-94)

Modification Item 1 of 1: ASUW IMPROV. PROG.(OSIP 029-94)

Manufacturer Information

Manufacturer Name: TBD- AIP C4 for ASW	Manufacturer Location: Various
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 9

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: C4 FOR ASW LINK-16

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	52 / 9.063	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	55 / 9.063
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	52 / 9.063	3 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 9.063

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	52	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55
Out	52	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	

Method of Implementation (Organic): Prior Year Kits - Not Installed

Installation Quantity: 115

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0538 / P-3 Series				Modification Number / Title: 2 / SSI-K(OSIP 005-05)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,395.230	0.500	-	-	-	-	-	-	-	-	-	1,395.730
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,395.230	0.500	-	-	-	-	-	-	-	-	-	1,395.730
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,395.230	0.500	-	-	-	-	-	-	-	-	-	1,395.730

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Special Structural Inspection - Kits(SSI-K) Program is an Operational Safety Improvement Program that will capture the P-3/EP-3 aircraft's test demonstrated fatigue life by replacing airframe structural components in fatigue life limiting critical regions of the P-3/EP-3 aircraft to enable the airframe to fully reach its designed service life but will not extend the fatigue life of those aircraft. Unchecked, these problem areas collectively will result in significant loss of aircraft from the operational inventory due to operational and support funding limitations. SSI-K will manufacture and install a structural mod / replacement kit for P-3 outer wing, center box and other components. Aircraft that have received an Enhanced Special Structural Inspection require only the Center Box subset of an SSI-K. These Center Box subset install kits are shown separately.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Program is in full rate production.

Notes:

1. No Install Costs associated with Rotable Pool Outer Wing Kits.2. EP SSI-K Kits have been included in SSI-K Kit Line and Zone 5 Mitigation Kit Line.
3. 12 SSI-K Installs and Zone 5 Installs are for EP-3 aircraft
4. FY15 Other Support Costs required to support completion of long lead time installations.
5. Remaining SSI-K Kit was transferred and installed by NASA

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0538 / P-3 Series					Modification Number / Title: 2 / SSI-K(OSIP 005-05)			
Models of Systems Affected: All P-3 T/M/S				Modification Type: Sustainment				Related RDT&E PEs: 0604221N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: SSI-K(OSIP 005-05)</i>													
A Kits													
Recurring													
1.1.1) Outer Wing Replacement Kit - NonOrganic	12 / 150.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 150.004	
1.1.2) Supplemental OW Replacement Kit - NonOrganic	17 / 210.333	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 210.333	
1.1.3) Prior Year Archive - Organic	30 / 797.918	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 797.918	
<i>Subtotal: Recurring</i>	- / 1,158.255	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,158.255	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 9.708	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.708	
<i>Subtotal: Non-Recurring</i>	- / 9.708	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.708	
<i>Subtotal: SSI-K(OSIP 005-05)</i>	59 / 1,167.963	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 1,167.963	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1,167.963	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,167.963	
Support (All Modification Items)													
3.1) ECO	- / 0.375	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.375	
3.2) Data	- / 2.198	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.198	
3.4) Support Equipment	- / 27.768	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.768	
3.5) ILS	- / 12.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.099	
3.6) Other Support	- / 95.093	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 95.593	
<i>Subtotal: Support</i>	- / 137.533	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 138.033	
Installation													
<i>Modification Item 1 of 1: SSI-K(OSIP 005-05)</i>	- / 89.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 89.734	
<i>Subtotal: Installation</i>	- / 89.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 89.734	
Total													
Total Cost (Procurement + Support + Installation)	1,395.230	0.500	-	-	-	-	-	-	-	-	-	1,395.730	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0538 / P-3 Series	Modification Number / Title: 2 / SSI-K(OSIP 005-05)

Modification Item 1 of 1: SSI-K(OSIP 005-05)

Manufacturer Information

Manufacturer Name: Various - SSIK Outer Wing Replacement Kits	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Outer Wing Replacement Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	29 / 89.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	29 / 89.734
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	29 / 89.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 89.734

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
Out	24	2	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29

Method of Implementation (Organic): Prior Year Archive - Not Installed **Installation Quantity:** 30

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0538 / P-3 Series			Modification Number / Title: 3 / P-3 MISSION SYSTEMS(OSIP 006-08)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	43.283	2.158	3.067	2.781	-	2.781	2.986	-	-	-	-	54.275
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	43.283	2.158	3.067	2.781	-	2.781	2.986	-	-	-	-	54.275
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	43.283	2.158	3.067	2.781	-	2.781	2.986	-	-	-	-	54.275
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Navy's Maritime Patrol and Reconnaissance Force (primarily P-3C Orion aircraft) provides three deliverables to Navy and Joint commanders worldwide: Undersea warfare; Intelligence Surveillance, and Reconnaissance; and Maritime Surveillance Targeting. The P-3C Mission Systems Sustainment program will ensure that the P-3C aircraft continues to meet the Navy's requirement to perform Anti-Submarine Warfare (ASW), Anti-Surface Warfare (ASUW), Over-the-Horizon Targeting (OTH-T), and Command, Control, Communications, Computers, and Intelligence (C4I) until Full Operational Capability (FOC) of Multi-Mission Maritime Aircraft(MMA) is achieved (2019). Funding supports a multitude of obsolescence sustainment, training/logistics and war fighting capability upgrades that are key in keeping the P-3 platform relevant until the projected P-8A FOC. Sustaining the sensor capabilities provided by the APS-137D (V) 5 imaging radar, the Advanced Imaging Multi-Spectral Sensor (AIMS) electro optical/infrared(EO/IR) system, ALR 95 Electronic Support Measures(ESM), Tactical Common Data Link (TCDL), small circular area of probability weapon system (Maverick, Standoff Land Attack Missile(SLAM), SLAM-Extended Range, provisions to carry and launch all Mil Std 1760 Digital weapons with Digital Stores Management System(DSMS), Block Modification Upgrade Program(BMUP) Sustainment, Fleet Response, P-3 Obsolescence Upgrades, ALE-47/AAR-47 missile warning countermeasures due to obsolescence is essential in order to maintain these vital capabilities. Additional systems and capabilities may be required in order to remain effective in the Sea Power 21 Construct. These systems include: MATT, APS-137 radar; Acoustic systems, AIMS EO/IR; Multi-Mission Advanced Tactical Terminal; Link 16; Global Communication & Control System - Maritime (GCCS-M); Integrated Tactical Picture (ITP); International Marine/Maritime Satellite; Precision Targeting Workstation (PTW); Over-the-Horizon Airborne Sensor Information System; Video Distribution Controller (VDC); Tactical Mission Computer(TMC); ALR-95 ESM; Demand Assigned Multiple Access(DAMA) Satcom; MST; TCDL; Recorders including the High Resolution Digital Recorder; ALE47/AAR47; Digital Stores Management System (DSMS), Advanced Data Storage System (ADSS); all weapon systems including missiles, torpedoes, mines, as well as acoustic system upgrades.

These improvements are a vital element of the P-3 sustainment bridge for mission aircraft, including Anti-surface Warfare Improvement Program(AIP) and BMUP, significantly enhancing the strategy of a smaller, more ready, more capable P-3 force during the bridge to MMA. P-3 C Mission Systems Sustainment is a branch of the ASW Maritime Improvement program (AMIP) to provide for obsolescence, technology refresh and technology insertion to P-3C mission systems.

FY-17 and FY-18 P-3 obsolescence upgrades addresses obsolescence issues on 18 BMUP aircraft. BMUP aircraft are supporting the Littoral Surveillance Radar System (LSRS) mission through 2023

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

This modification makes maximum use of previously developed subsystems.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0538 / P-3 Series					Modification Number / Title: 3 / P-3 MISSION SYSTEMS(OSIP 006-08)			
Models of Systems Affected: P-3C				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: P-3 MISSION SYSTEMS(OSIP 006-08)</i>													
B Kits													
Recurring													
2.1.1) BMUP Tech Refresh/Insertion - Organic	- / -	1 / 0.513	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.513	
2.1.2) Fleet Response - Organic	28 / 0.204	7 / 0.056	8 / 0.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 0.330	
2.1.3) P-3 Obsolescence Upgrades - Organic	133 / 6.329	7 / 0.243	- / 0.300	- / 1.299	- / -	- / 1.299	- / 1.377	- / -	- / -	- / -	- / -	140 / 9.548	
2.1.4) Mode 5/S Transponder (APX-123) - Organic	- / -	- / 0.110	- / 0.961	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.071	
2.1.5) Archived Mods - Organic	- / 5.986	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.986	
Subtotal: Recurring	- / 12.519	- / 0.922	- / 1.331	- / 1.299	- / -	- / 1.299	- / 1.377	- / -	- / -	- / -	- / -	- / 17.448	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 6.804	- / -	- / 0.200	- / 0.200	- / -	- / 0.200	- / 0.300	- / -	- / -	- / -	- / -	- / 7.504	
Subtotal: Non-Recurring	- / 6.804	- / -	- / 0.200	- / 0.200	- / -	- / 0.200	- / 0.300	- / -	- / -	- / -	- / -	- / 7.504	
Subtotal: P-3 MISSION SYSTEMS(OSIP 006-08)	161 / 19.323	15 / 0.922	8 / 1.531	- / 1.499	- / -	- / 1.499	- / 1.677	- / -	- / -	- / -	- / -	184 / 24.952	
Subtotal: Procurement, All Modification Items	- / 19.323	- / 0.922	- / 1.531	- / 1.499	- / -	- / 1.499	- / 1.677	- / -	- / -	- / -	- / -	- / 24.952	
Support (All Modification Items)													
3.1) ECO	- / 5.111	- / 0.434	- / 0.300	- / 0.300	- / -	- / 0.300	- / 0.351	- / -	- / -	- / -	- / -	- / 6.496	
3.2) Data	- / 0.364	- / 0.050	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / -	- / -	- / -	- / -	- / 0.714	
3.3) Training Equipment	- / 1.169	- / 0.050	- / 0.147	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.366	
3.4) Support Equipment	- / 0.357	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.357	
3.5) ILS	- / 0.372	- / 0.050	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / -	- / -	- / -	- / -	- / 0.722	
3.6) Other Support	- / 16.587	- / 0.652	- / 0.889	- / 0.782	- / -	- / 0.782	- / 0.758	- / -	- / -	- / -	- / -	- / 19.668	
Subtotal: Support	- / 23.960	- / 1.236	- / 1.536	- / 1.282	- / -	- / 1.282	- / 1.309	- / -	- / -	- / -	- / -	- / 29.323	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	43.283	2.158	3.067	2.781	-	2.781	2.986	-	-	-	-	54.275	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0538 / P-3 Series	Modification Number / Title: 3 / P-3 MISSION SYSTEMS(OSIP 006-08)
<i>Modification Item 1 of 1:</i> P-3 MISSION SYSTEMS(OSIP 006-08)		
Installation Information		
Method of Implementation (Organic): BMUP Tech Refresh/Insertion - Not Installed		Installation Quantity: 1
Method of Implementation (Organic): Fleet Response - Not Installed		Installation Quantity: 43
Method of Implementation (Organic): P-3 Obsolescence Upgrades - Not Installed		Installation Quantity: 140

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0538 / P-3 Series	Modification Number / Title: 4 / Inactive OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,982.930	-	-	-	-	-	-	-	-	-	-	1,982.930
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	1,982.930	-	-	-	-	-	-	-	-	-	-	1,982.930
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1,982.930	-	-	-	-	-	-	-	-	-	-	1,982.930
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0538 / P-3 Series					Modification Number / Title: 4 / Inactive OSIPs			
Models of Systems Affected: [No Model Specified]					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Inactive OSIPs</i>													
B Kits													
Non-Recurring													
2.2.1) Inactive OSIPs - Organic													
	- / 1,982.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,982.930	
<i>Subtotal: Non-Recurring</i>													
	- / 1,982.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,982.930	
<i>Subtotal: Inactive OSIPs</i>													
	- / 1,982.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,982.930	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / 1,982.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,982.930	
Installation													
<i>Subtotal: Installation</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)													
	1,982.930	-	-	-	-	-	-	-	-	-	-	1,982.930	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0538 / P-3 Series	Modification Number / Title: 4 / Inactive OSIPs
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0544 / E-2 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 000	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,428.548	21.059	19.113	32.949	-	32.949	100.925	101.608	133.694	138.149	356.359	2,332.404
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,428.548	21.059	19.113	32.949	-	32.949	100.925	101.608	133.694	138.149	356.359	2,332.404
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,428.548	21.059	19.113	32.949	-	32.949	100.925	101.608	133.694	138.149	356.359	2,332.404

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in E-2 SERIES by \$1.394M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

This line item funds modifications to the E-2 aircraft. The E-2 is an all-weather, carrier based, airborne early warning, command and control aircraft that extends task force defense perimeters by providing early warning of approaching enemy units and by vectoring interceptors into attack position. Additionally, the HAWKEYE provides strike control, radar surveillance, search and rescue assistance, communications relay and automatic tactical data exchange. As the result of technological advancements, the Commercial-Off-The-Shelf (COTS) hardware/software of the Mission Computer (MCU) will change or become obsolete in the very near future.

The Technology Insertion Operational Safety and Improvement Program (OSIP) (05-01), supports assembly, validation and configuration management of COTS hardware and software of the MCU. The Radar Improvement program OSIP (05-11), supports portions of its APS-145 Radar architecture dated from the 1960s and serious obsolescence issues which are expected to disrupt normal operations if left unmitigated. The Dual Transmit Satellite Communications OSIP (08-14), provides the E-2 with an additional Satellite Communications radio satisfying a capability gap that was identified during Operation Enduring Freedom. The MODE 5/S OSIP (09-14), will update the current APX-122 Identification of Friend or Foe (IFF) interrogator system with the upgraded Mode 5 software and hardware. Mode 5 secure IFF system is used to identify friendly forces in a battlefield environment by maximizing Combat Identification and Situational Awareness among military platforms. Mode 5/S will support the Joint Initial Operational Capability as defined by the Joint Requirements Oversight Council. The E-2D Avionics OSIP (11-14), will fund the ARC-210 upgrades required to remain compliant with NSA Directives. The E-2D Aircraft Airframe Change Directives (ACDs) OSIP (05-15), will retrofit Initial Operational Test and Evaluation (IOT&E) ACDs and Engineering Change Proposals (ECPs) into the E-2D Low Rate Production (LRIP) aircraft. The E-2D AIS OSIP (09-16), will provide enhanced maritime target Combat ID capability in support of Battlefield Management, Command and Control (BMC2) and Surface Warfare (SUW) mission. The LINK-16 OSIP (01-17), will address E-2C flight and mission critical avionics obsolescence and fact-of-life sustainment issues required to maintain current operational capabilities. The E-2D Integrated Broadcast Service-Universal Serial Bus-Embedded National Tactical Receiver (IBS-USB-ENTR) OSIP (08-17), will provide the E-2D with the capability to receive IBS intelligence data from national assets for real-time, emergent threat or Combat ID data, compressing tactical engagement timeline for Naval Integrated Fire Control - Counter Air (NIFC-CA) kill chains. The Wing Center Section (WCS) OSIP (12-17), enables aircraft full service life and removes vehicle performance envelope restrictions. This will mitigate the potential for aircraft grounding. The E-2D aircraft utilizes TS-282 FN E-2D Network File Servers (NFS) OSIP (13-17) to load software programs and record data directly associated with the planned and tactical activity during the performance of its missions. The E-2D Multifunctional Information Distribution System/Joint Tactical Radio System and Tactical Targeting Network Targeting (MIDS/JTRS) OSIP (01-18), wave form will integrate the current E-2D Link-16 data link architecture with a time-sensitive targeting technology. The E-2D Aerial Refueling (AR) OSIP (02-18), will allow the E-2 to receive fuel from various organic and non-organic tanker aircraft. It will provide Expanded Battle Space Surveillance and Targeting through significantly enhanced persistence and increased flexibility (range & endurance). The E-2D Secret Internet Protocol Router Chat OSIP (03-18), will support the integration of current collaboration tools including tactical "chat" (text) communications, real-time tasking, and Air Tasking Order distribution. Recent real world operations have demonstrated a migration of Command and Control communications from voice to Internet

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0544 / E-2 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000	Item MDAP/MAIS Code(s): N/A	
<p>protocol based networks. The Crypto Modernization / Frequency Remapping OSIP (07-18), addresses MIDS JTRS/Link-16 crypto mod and frequency remap to maintain E-2D Link-16 interoperability including CMN-4 and aligns all efforts with DSSC 4 schedule. Global Positioning System (GPS) Modification (006-19), provides Naval platforms improved access to GPS signals in challenged and jamming environments. Modernized GPS receivers to utilize the new M-Code GPS Signal in Space, incorporate enhanced cryptology, deliver greater position and time accuracy, provide improved protection against signal spoofing as compared to legacy Selective Anti-jam Anti-Spoof Module (SAASM) receivers and replace an obsolescence issue. Additionally, GPS Modernization delivers increased GPS anti-jam protection and enables blue force GPS electronic attack. Plays a pivotal role in Anti-Access Area Denial (A2AD) fight. Operationalizes risk reduction efforts currently underway by the Air Force and integrates it into Naval ships, submarines, aircraft, weapons systems, and GPS enabled systems imbedded on those platforms. Enables compliance with Public Law 111-383 and Office of the Secretary of Defense Oversight Council guidance. The Electronic Support Measures (02-20), digital upgrade greatly enhances CID, battle space awareness, and effectiveness of blue forces. Combat Identification (#3) requirements and network sensor systems (#2) are specifically called out on COMACCLOGWING's FY14 E-2D Naval Aviation Readiness Group (NARG) Message.</p> <p>There are 42 E-2C's (delivered) and 35 E-2D's (on contract) for a total of 77 E-2 aircraft. The E-2 has a service life of 10,000 flight hours.</p> <p>Changes in various OSIPs from PB16 to PB17 are due to realignments required to achieve project affordability and fleet required modifications.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0544 / E-2 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 000 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 005-01 Technology Insertion (Mission Performance Enhancement)			- / 116.898	- / 5.632	- / 5.630	- / 5.677	- / -	- / 5.677
P-3a	2 / 005-11 Radar Improvement Program (Mission Performance Enhancements)			- / 13.281	- / 2.800	- / 0.025	- / -	- / -	- / -
P-3a	3 / 008-14 Dual Transmit SATCOM (Mission Performance Enhancements)			- / 0.000	- / 2.595	- / 5.332	- / 8.791	- / -	- / 8.791
P-3a	4 / 009-14 MODE 5/S (Mission Performance Enhancements)			- / 4.415	- / 3.058	- / 3.348	- / 1.368	- / -	- / 1.368
P-3a	5 / 011-14 E-2D Avionics (Mission Performance Enhancements)			- / 1.726	- / 5.084	- / 1.900	- / 0.432	- / -	- / 0.432
P-3a	6 / 005-15 E-2D Aircraft ACD's (Mission Performance Enhancements)			- / 0.000	- / 1.890	- / 1.540	- / 2.622	- / -	- / 2.622
P-3a	7 / 009-16 E-2D AIS (Mission Performance Enhancements)			- / 0.000	- / -	- / 1.338	- / 3.669	- / -	- / 3.669
P-3a	8 / 001-17 LINK 16 (JTIDS for E-2C) (Mission Performance Enhancements)			- / 0.000	- / -	- / -	- / -	- / -	- / -
P-3a	9 / 008-17 E-2D IBS-USB-ENTR (Missions Performance Enhancements)			- / 0.000	- / -	- / -	- / 1.144	- / -	- / 1.144
P-3a	10 / 012-17 Structural Enhancements (Air Vehicle)			- / 0.000	- / -	- / -	- / 3.900	- / -	- / 3.900
P-3a	11 / 013-17 Network File Server (Mission Performance Enhancements)			- / 0.000	- / -	- / -	- / 5.346	- / -	- / 5.346
P-3a	12 / 001-18 E-2D MIDS/JTRS TTNT (Mission Performance Enhancements)			- / 0.000	- / -	- / -	- / -	- / -	- / -
P-3a	13 / 002-18 E-2D Aerial Refueling (Mission Performance Enhancements)			- / 0.000	- / -	- / -	- / -	- / -	- / -
P-3a	14 / 003-18 E-2D SIPR CHAT (Mission Performance Enhancements)			- / 0.000	- / -	- / -	- / -	- / -	- / -
P-3a	15 / 007-18 Crypto Modernization (Mission Performance Enhancement)			- / 0.000	- / -	- / -	- / -	- / -	- / -
P-3a	16 / 006-19 GPS Modernization (Mission Performance Enhancement)			- / 0.000	- / -	- / -	- / -	- / -	- / -
P-3a	17 / 002-20 Electronic Support Measures (TBD)			- / 0.000	- / -	- / -	- / -	- / -	- / -
P-3a	18 / Inactive OSIPs (TBD)			- / 1,292.228	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 1,428.548	- / 21.059	- / 19.113	- / 32.949	- / -	- / 32.949

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 005-01 Technology Insertion (Mission Performance Enhancement)			- / 5.797	- / 5.943	- / 6.055	- / 6.170	- / 18.999	- / 176.801
P-3a	2 / 005-11 Radar Improvement Program (Mission Performance Enhancements)			- / -	- / -	- / -	- / -	- / -	- / 16.106
P-3a	3 / 008-14 Dual Transmit SATCOM (Mission Performance Enhancements)			- / 4.325	- / 0.754	- / -	- / -	- / -	- / 21.797
P-3a	4 / 009-14 MODE 5/S (Mission Performance Enhancements)			- / -	- / -	- / -	- / -	- / -	- / 12.189
P-3a	5 / 011-14 E-2D Avionics (Mission Performance Enhancements)			- / -	- / -	- / -	- / -	- / -	- / 9.142
P-3a	6 / 005-15 E-2D Aircraft ACD's (Mission Performance Enhancements)			- / 1.854	- / 1.997	- / 3.882	- / 3.654	- / -	- / 17.439
P-3a	7 / 009-16 E-2D AIS (Mission Performance Enhancements)			- / 1.234	- / 0.498	- / -	- / -	- / -	- / 6.739
P-3a	8 / 001-17 LINK 16 (JTIDS for E-2C) (Mission Performance Enhancements)			- / 6.192	- / 4.907	- / 0.907	- / -	- / -	- / 12.006

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0544 / E-2 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 000 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	9 / 008-17 E-2D IBS-USB-ENTR (Missions Performance Enhancements)			- / 5.663	- / 1.780	- / 1.501	- / 1.430	- / 0.524	- / 12.042
P-3a	10 / 012-17 Structural Enhancements (Air Vehicle)			- / 9.100	- / 9.200	- / 9.100	- / 6.500	- / -	- / 37.800
P-3a	11 / 013-17 Network File Server (Mission Performance Enhancements)			- / 0.556	- / -	- / -	- / -	- / -	- / 5.902
P-3a	12 / 001-18 E-2D MIDS/JTRS TTNT (Mission Performance Enhancements)			- / 17.913	- / 15.617	- / 16.092	- / 16.539	- / 13.263	- / 79.424
P-3a	13 / 002-18 E-2D Aerial Refueling (Mission Performance Enhancements)			- / 32.128	- / 47.720	- / 49.823	- / 54.084	- / 251.395	- / 435.150
P-3a	14 / 003-18 E-2D SIPR CHAT (Mission Performance Enhancements)			- / 10.210	- / 5.983	- / 5.853	- / 4.322	- / 5.113	- / 31.481
P-3a	15 / 007-18 Crypto Modernization (Mission Performance Enhancement)			- / 5.953	- / 5.909	- / 5.895	- / 3.669	- / 0.805	- / 22.231
P-3a	16 / 006-19 GPS Modernization (Mission Performance Enhancement)			- / -	- / 1.300	- / 3.800	- / 10.400	- / 19.426	- / 34.926
P-3a	17 / 002-20 Electronic Support Measures (TBD)			- / -	- / -	- / 30.786	- / 31.381	- / 46.834	- / 109.001
P-3a	18 / Inactive OSIPs (TBD)			- / -	- / -	- / -	- / -	- / -	- / 1,292.228
P-40	Total Gross/Weapon System Cost			- / 100.925	- / 101.608	- / 133.694	- / 138.149	- / 356.359	- / 2,332.404

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 1 / 005-01 Technology Insertion
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	116.898	5.632	5.630	5.677	-	5.677	5.797	5.943	6.055	6.170	18.999	176.801
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	116.898	5.632	5.630	5.677	-	5.677	5.797	5.943	6.055	6.170	18.999	176.801
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	116.898	5.632	5.630	5.677	-	5.677	5.797	5.943	6.055	6.170	18.999	176.801

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Technology Insertion OSIP was established to address obsolescence of Commercial Off-The Shelf (COTS) software and hardware of E-2 computing resources. Commercial technology obsolescence drives hardware and software changes in Computing Resources for the E-2 Aircraft. Funding is required to support capability for assembly, validation, and configuration management of COTS hardware/software provided to fleet squadrons and updated on a 4-year technology cycle. Specific examples include video boards, memory boards, Computer Processing Units cards, compilers, middleware, backplanes, and operating systems that will change or become obsolete.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The E-2 Program Support Activity will insure software is upgraded, revised, and integrated so it functions with the versions of the COTS hardware and software delivered. The integration effort must start no less than one year prior to delivery.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 1 / 005-01 Technology Insertion			
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: 005-01 Technology Insertion</i>													
A Kits													
Recurring													
1.1.1) Archive ECP's - Organic	- / 0.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.832	
<i>Subtotal: Recurring</i>	- / 0.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.832	
<i>Subtotal: 005-01 Technology Insertion</i>	- / 0.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.832	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.832	
Support (All Modification Items)													
3.1) Data	- / 0.827	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.100	- / 1.102	
3.2) ILS	- / 7.061	- / 0.672	- / 0.670	- / 0.669	- / -	- / 0.669	- / 0.701	- / 0.718	- / 0.738	- / 0.753	- / 3.281	- / 15.263	
3.3) Software Upgrades	- / 4.301	- / 3.467	- / 3.369	- / 3.279	- / -	- / 3.279	- / 3.225	- / 3.206	- / 3.138	- / 3.200	- / 12.399	- / 39.584	
3.4) Training Equipment	- / 4.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.500	
3.6) Other Support	- / 99.377	- / 1.468	- / 1.566	- / 1.704	- / -	- / 1.704	- / 1.846	- / 1.994	- / 2.154	- / 2.192	- / 3.219	- / 115.520	
<i>Subtotal: Support</i>	- / 116.066	- / 5.632	- / 5.630	- / 5.677	- / -	- / 5.677	- / 5.797	- / 5.943	- / 6.055	- / 6.170	- / 18.999	- / 175.969	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	116.898	5.632	5.630	5.677	-	5.677	5.797	5.943	6.055	6.170	18.999	176.801	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 1 / 005-01 Technology Insertion
Modification Item 1 of 1: 005-01 Technology Insertion		

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 005-11 Radar Improvement Program
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	13.281	2.800	0.025	-	-	-	-	-	-	-	-	16.106
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	13.281	2.800	0.025	-	-	-	-	-	-	-	-	16.106
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	13.281	2.800	0.025	-	-	-	-	-	-	-	-	16.106
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding will integrate and field improvements to the E-2C radar components that are expected to be unsupportable in the near term and are of a high failure rate. Such improvements will keep portions of the APS-145 radar viable until 2021, the expected retirement date of the Hawkeye 2000. This funding also supports necessary modifications within the APS-145 Radar Test Bench System.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Non-recurring Engineering was awarded on 16 June 2010. The Preliminary Design Review was completed 1ST QTR of FY11. The Critical Design Review was completed 3RD QTR of FY11. Flight Testing completed in FY-12.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 2 / 005-11 Radar Improvement Program			
Models of Systems Affected: E-2C					Modification Type: Mission Performance Enhancements					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 005-11 Radar Improvement Program													
B Kits													
Recurring													
2.1.1) WRA-9 - NonOrganic	32 / 2.718	11 / 0.973	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 3.691	
2.1.2) Archived ECP's - Organic	- / 0.637	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.637	
<i>Subtotal: Recurring</i>	- / 3.355	- / 0.973	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.328	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 0.586	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.586	
<i>Subtotal: Non-Recurring</i>	- / 0.586	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.586	
<i>Subtotal: 005-11 Radar Improvement Program</i>	32 / 3.941	11 / 0.973	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 4.914	
<i>Subtotal: Procurement, All Modification Items</i>	- / 3.941	- / 0.973	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.914	
Support (All Modification Items)													
3.1) Data	- / -	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	
3.2) ILS	- / 3.169	- / 1.154	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.323	
3.4) Support Equipment	15 / 3.463	- / 0.142	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 3.605	
3.5) Other Support ⁽¹⁾	- / 2.558	- / 0.452	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.010	
<i>Subtotal: Support</i>	- / 9.190	- / 1.798	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.988	
Installation													
<i>Modification Item 1 of 1:</i> 005-11 Radar Improvement Program	- / 0.150	- / 0.029	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.204	
<i>Subtotal: Installation</i>	- / 0.150	- / 0.029	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.204	
Total													
Total Cost (Procurement + Support + Installation)	13.281	2.800	0.025	-	-	-	-	-	-	-	-	16.106	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 005-11 Radar Improvement Program

Modification Item 1 of 1: 005-11 Radar Improvement Program

Manufacturer Information

Manufacturer Name: WRA-9				Manufacturer Location: Depot Field Modification Team			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 4			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015						
Delivery Dates	Oct 2015						

Installation Information

Method of Implementation: Depot Field Modification Team:: Installation Name: WRA-9

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	20 / 0.150	12 / 0.029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	32 / 0.179
FY 2015	- / -	- / -	11 / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.025
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	20 / 0.150	12 / 0.029	11 / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 0.204

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	20	6	6	-	-	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43
Out	20	6	6	-	-	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43

Footnotes:
 (1) FY16 Support cost are to prevent the analysis, review and resolution of multiple ongoing and future DMS/Obsolescence issues. If left unresolved, the DMS and obsolescence issues will lead to the fleet ordering next higher assemblies (increased AVDLR Cost), reduced sparing through condemning units due to the lack of replacement parts (I.E. Beyond Economical Repair (BER)) and possibly inoperable aircraft systems due to the lack of these viable replacement parts. Prevent update to the FRC Intermediate/Depot Level Automatic Test Procedures (ATP) and to multiple manual unit test procedures that have resulted in numerous unit misalignments and multiple erroneous Beyond Capability Maintenance (BCM) and Y coding issues that result in substantial increases to the Fleet AVDLR accounts. Also these funds will hamper, delay and possibly stop installation of developed system enhancements.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 3 / 008-14 Dual Transmit SATCOM
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	2.595	5.332	8.791	-	8.791	4.325	0.754	-	-	-	21.797
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	2.595	5.332	8.791	-	8.791	4.325	0.754	-	-	-	21.797
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	2.595	5.332	8.791	-	8.791	4.325	0.754	-	-	-	21.797
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Dual Transmit Satellite Communication (SATCOM) Operational Safety and Improvement Program will integrate and field the capability into the E-2D by modifying aircraft cabling/components and the rotodome antenna. This integration will allow the aircrew to simultaneously receive/transmit on two SATCOM channels, allowing use of two discrete command nets for voice and data.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Dual Transmit SATCOM system design and development began in FY09. Flight test completed in FY15. Procurement of kits will begin in FY16. The procurement of 5 Dual SATCOM Kits in FY16 is required to support VX-1 Operational testing for DSSC 2 release. This capability is critical to prevent severe communication gaps with the carrier strike group during missions in theatre.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 3 / 008-14 Dual Transmit SATCOM			
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 008-14 Dual Transmit SATCOM													
A Kits													
Recurring													
1.1.1) E-2D Dual Transmit SATCOM - NonOrganic ⁽²⁾	- / -	1 / 1.189	4 / 4.741	8 / 6.655	- / -	8 / 6.655	3 / 2.725	- / -	- / -	- / -	- / -	16 / 15.310	
<i>Subtotal: Recurring</i>	- / 0.000	- / 1.189	- / 4.741	- / 6.655	- / -	- / 6.655	- / 2.725	- / -	- / -	- / -	- / -	- / 15.310	
<i>Subtotal: 008-14 Dual Transmit SATCOM</i>	- / -	1 / 1.189	4 / 4.741	8 / 6.655	- / -	8 / 6.655	3 / 2.725	- / -	- / -	- / -	- / -	16 / 15.310	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 1.189	- / 4.741	- / 6.655	- / -	- / 6.655	- / 2.725	- / -	- / -	- / -	- / -	- / 15.310	
Support (All Modification Items)													
3.1) Data	- / -	- / 0.225	- / 0.127	- / 0.153	- / -	- / 0.153	- / -	- / -	- / -	- / -	- / -	- / 0.505	
3.2) ILS	- / -	- / 0.063	- / 0.129	- / 0.295	- / -	- / 0.295	- / 0.332	- / 0.069	- / -	- / -	- / -	- / 0.888	
3.3) Training Equipment	- / -	- / -	- / -	- / 0.749	- / -	- / 0.749	- / 0.052	- / -	- / -	- / -	- / -	- / 0.801	
3.4) Support Equipment	- / -	- / 0.545	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.545	
3.5) Other Support ⁽³⁾	- / -	- / 0.573	- / 0.335	- / 0.480	- / -	- / 0.480	- / 0.592	- / 0.446	- / -	- / -	- / -	- / 2.426	
<i>Subtotal: Support</i>	- / 0.000	- / 1.406	- / 0.591	- / 1.677	- / -	- / 1.677	- / 0.976	- / 0.515	- / -	- / -	- / -	- / 5.165	
Installation													
<i>Modification Item 1 of 1:</i> 008-14 Dual Transmit SATCOM	- / 0.000	- / -	- / -	- / 0.459	- / -	- / 0.459	- / 0.624	- / 0.239	- / -	- / -	- / -	- / 1.322	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 0.459	- / -	- / 0.459	- / 0.624	- / 0.239	- / -	- / -	- / -	- / 1.322	
Total													
Total Cost (Procurement + Support + Installation)	0.000	2.595	5.332	8.791	-	8.791	4.325	0.754	-	-	-	21.797	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 3 / 008-14 Dual Transmit SATCOM

Modification Item 1 of 1: 008-14 Dual Transmit SATCOM

Manufacturer Information

Manufacturer Name: Dual Transmit SATCOM	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	May 2016	May 2016	May 2017	May 2018			
Delivery Dates	May 2017	May 2017	May 2018	May 2019			

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D Dual Transmit SATCOM

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	1 / 0.076	- / -	1 / 0.076	- / -	- / -	- / -	- / -	- / -	1 / 0.076
FY 2016	- / -	- / -	- / -	4 / 0.383	- / -	4 / 0.383	- / -	- / -	- / -	- / -	- / -	4 / 0.383
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.624	- / -	- / -	- / -	- / -	8 / 0.624
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.239	- / -	- / -	- / -	3 / 0.239
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	5 / 0.459	- / -	5 / 0.459	8 / 0.624	3 / 0.239	- / -	- / -	- / -	16 / 1.322

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	3	2	-	-	4	4	-	-	2	1	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	3	2	-	-	4	4	-	-	2	1	-	-	-	-	-	-	-	-	-	-

Footnotes:

- (2) Quantity shifts from PB16 to PB17 are due to modifications needed on fleet aircraft based on aircraft availability in order to meet deployment schedules. FY15 (1) and FY16 (4)kits will be installed in FY17. With a 12 month lead time the FY15 kit will be installed with the FY16 kits.
- (3) FY-19 support costs required for installs.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 4 / 009-14 MODE 5/S
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.415	3.058	3.348	1.368	-	1.368	-	-	-	-	-	12.189
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4.415	3.058	3.348	1.368	-	1.368	-	-	-	-	-	12.189
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.415	3.058	3.348	1.368	-	1.368	-	-	-	-	-	12.189

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding will field the Mode 5 interrogation capability into the E-2D. This effort will update the current APX-122 Identification of Friend or Foe (IFF) interrogator system with the Mode 5 software and hardware upgrade. The Mode 5 secure IFF system is used to identify friendly forces in a battlefield environment by maximizing Combat Identification and Situational Awareness among military platforms. The E-2D Mode 5 IFF system is being developed with modern modulation, coding, and cryptographic techniques that will provide positive, secure, line-of-sight identification of friendly military aircraft platforms.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Mode 5 system design and development completed in 4th QTR FY14. Flight test is due to complete 2nd QTR FY16. Procurement of kits began in FY14.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 4 / 009-14 MODE 5/S			
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 009-14 MODE 5/S</i>													
B Kits													
Recurring													
2.1.1) MODE 5/S - NonOrganic	5 / 1.443	5 / 1.472	6 / 1.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 4.717	
<i>Subtotal: Recurring</i>	- / 1.443	- / 1.472	- / 1.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.717	
<i>Subtotal: 009-14 MODE 5/S</i>	5 / 1.443	5 / 1.472	6 / 1.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 4.717	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1.443	- / 1.472	- / 1.802	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.717	
Support (All Modification Items)													
3.1) Data	- / -	- / 0.047	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.097	
3.2) ILS ⁽⁴⁾	- / 0.044	- / 0.069	- / 0.184	- / 0.094	- / -	- / 0.094	- / -	- / -	- / -	- / -	- / -	- / 0.391	
3.3) Training Equipment	3 / 2.249	- / 0.221	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.495	
3.4) Support Equipment	15 / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.150	
3.5) Other Support ⁽⁵⁾	- / 0.529	- / 1.064	- / 1.099	- / 1.044	- / -	- / 1.044	- / -	- / -	- / -	- / -	- / -	- / 3.736	
<i>Subtotal: Support</i>	- / 2.972	- / 1.401	- / 1.358	- / 1.138	- / -	- / 1.138	- / -	- / -	- / -	- / -	- / -	- / 6.869	
Installation													
<i>Modification Item 1 of 1: 009-14 MODE 5/S</i>	- / 0.000	- / 0.185	- / 0.188	- / 0.230	- / -	- / 0.230	- / -	- / -	- / -	- / -	- / -	- / 0.603	
<i>Subtotal: Installation</i>	- / 0.000	- / 0.185	- / 0.188	- / 0.230	- / -	- / 0.230	- / -	- / -	- / -	- / -	- / -	- / 0.603	
Total													
Total Cost (Procurement + Support + Installation)	4.415	3.058	3.348	1.368	-	1.368	-	-	-	-	-	12.189	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 4 / 009-14 MODE 5/S

Modification Item 1 of 1: 009-14 MODE 5/S

Manufacturer Information

Manufacturer Name: E-2D MODE 5	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Mar 2015	Mar 2016					
Delivery Dates	Mar 2016	Mar 2017					

Installation Information

Method of Implementation: FIELD MOD TEAM:: Installation Name: MODE 5/S

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	5 / 0.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	5 / 0.185
FY 2015	- / -	- / -	5 / 0.188	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.188
FY 2016	- / -	- / -	- / -	6 / 0.230	- / -	6 / 0.230	- / -	- / -	- / -	- / -	- / -	6 / 0.230
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	5 / 0.185	5 / 0.188	6 / 0.230	- / -	6 / 0.230	- / -	- / -	- / -	- / -	- / -	16 / 0.603

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	5	-	-	-	5	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	-	-	5	-	-	-	5	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	

Footnotes:

- (4) FY17 decrease is due to end of program phasing.
- (5) FY17 support costs required for installs.

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 5 / 011-14 E-2D Avionics
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1.726	5.084	1.900	0.432	-	0.432	-	-	-	-	-	9.142
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	1.726	5.084	1.900	0.432	-	0.432	-	-	-	-	-	9.142
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1.726	5.084	1.900	0.432	-	0.432	-	-	-	-	-	9.142

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding will integrate and field the Crypto modernization improvements of ARC-210 into the E-2D. Without the modernization of the crypto the E-2D loses the ability to do High Frequency secure voice, LINK-16 and Satellite Communications Intel Data which are required to execute the E-2D mission.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

ARC-210 software development completed in FY13. Flight test completed in FY14. Procurement of kits began in FY14.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 5 / 011-14 E-2D Avionics			
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 011-14 E-2D Avionics													
A Kits													
Recurring													
1.1.1) ARC-210 - NonOrganic	2 / 0.007	5 / 0.017	2 / 0.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.031	
<i>Subtotal: Recurring</i>	- / 0.007	- / 0.017	- / 0.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.031	
B Kits													
Recurring													
2.1.1) ARC-210 - Organic	2 / 1.159	5 / 2.253	2 / 1.204	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 4.616	
<i>Subtotal: Recurring</i>	- / 1.159	- / 2.253	- / 1.204	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.616	
<i>Subtotal: 011-14 E-2D Avionics</i>	4 / 1.166	10 / 2.270	4 / 1.211	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 4.647	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1.166	- / 2.270	- / 1.211	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.647	
Support (All Modification Items)													
3.1) Data	- / -	- / 0.125	- / 0.036	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.161	
3.2) ILS	- / 0.466	- / 0.464	- / 0.066	- / 0.052	- / -	- / 0.052	- / -	- / -	- / -	- / -	- / -	- / 1.048	
3.3) Training Equipment	- / -	1 / 1.776	- / 0.152	- / 0.070	- / -	- / 0.070	- / -	- / -	- / -	- / -	- / -	1 / 1.998	
3.5) Other Support ⁽⁶⁾	- / 0.094	- / 0.369	- / 0.232	- / 0.227	- / -	- / 0.227	- / -	- / -	- / -	- / -	- / -	- / 0.922	
<i>Subtotal: Support</i>	- / 0.560	- / 2.734	- / 0.486	- / 0.349	- / -	- / 0.349	- / -	- / -	- / -	- / -	- / -	- / 4.129	
Installation													
<i>Modification Item 1 of 1:</i> 011-14 E-2D Avionics	- / 0.000	- / 0.080	- / 0.203	- / 0.083	- / -	- / 0.083	- / -	- / -	- / -	- / -	- / -	- / 0.366	
<i>Subtotal: Installation</i>	- / 0.000	- / 0.080	- / 0.203	- / 0.083	- / -	- / 0.083	- / -	- / -	- / -	- / -	- / -	- / 0.366	
Total													
Total Cost (Procurement + Support + Installation)	1.726	5.084	1.900	0.432	-	0.432	-	-	-	-	-	9.142	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 5 / 011-14 E-2D Avionics

Modification Item 1 of 1: 011-14 E-2D Avionics

Manufacturer Information

Manufacturer Name: ARC-210				Manufacturer Location: Not Specified..			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 7			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015					
Delivery Dates	May 2015	May 2016					

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ARC-210

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	2 / 0.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	2 / 0.080
FY 2015	- / -	- / -	5 / 0.203	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.203
FY 2016	- / -	- / -	- / -	2 / 0.083	- / -	2 / 0.083	- / -	- / -	- / -	- / -	- / -	2 / 0.083
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	2 / 0.080	5 / 0.203	2 / 0.083	- / -	2 / 0.083	- / -	- / -	- / -	- / -	- / -	9 / 0.366

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	2	-	-	-	5	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Out	-	-	-	2	-	-	-	5	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	

Method of Implementation (Organic): ARC-210 - Not Installed

Installation Quantity: 9

Footnotes:

⁽⁶⁾ FY-17 support costs required for installs.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 6 / 005-15 E-2D Aircraft ACD's
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	1.890	1.540	2.622	-	2.622	1.854	1.997	3.882	3.654	-	17.439
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	1.890	1.540	2.622	-	2.622	1.854	1.997	3.882	3.654	-	17.439
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	1.890	1.540	2.622	-	2.622	1.854	1.997	3.882	3.654	-	17.439
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Retrofit Airframe Change Directives (ACDs)/ Engineering Change Proposals (ECPs) are required for the E-2D aircraft to support the incorporation of established capability, reliability, maintainability, obsolescence, safety and supportability improvements.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

E-2D Aircraft ACD's development and designs completed in FY12. Approved ACD's production cut-ins began in FY13. Procurement of kits began in FY15.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 6 / 005-15 E-2D Aircraft ACD's			
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: 005-15 E-2D Aircraft ACD's</i>													
A Kits													
Recurring													
1.1.1) E-2D 1B ACD Kit - NonOrganic	- / -	8 / 0.922	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.922	
1.1.2) E-2D 1C ACD Kit - NonOrganic	- / -	10 / 0.812	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.812	
1.1.3) E-2D 2B ACD Kit - NonOrganic ⁽⁷⁾	- / -	- / -	- / -	36 / 0.214	- / -	36 / 0.214	35 / 0.213	36 / 0.222	38 / 0.239	35 / 0.221	- / -	180 / 1.109	
1.1.4) E-2D 3A ACD kit - NonOrganic ⁽⁸⁾	- / -	- / -	- / -	33 / 0.588	- / -	33 / 0.588	32 / 0.596	31 / 0.568	36 / 0.653	34 / 0.628	- / -	166 / 3.033	
1.1.5) E-2D 4C ACD kit - NonOrganic ⁽⁹⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.934	34 / 0.861	- / -	70 / 1.795	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / 1.734</i>	<i>- / -</i>	<i>- / 0.802</i>	<i>- / -</i>	<i>- / 0.802</i>	<i>- / 0.809</i>	<i>- / 0.790</i>	<i>- / 1.826</i>	<i>- / 1.710</i>	<i>- / -</i>	<i>- / 7.671</i>	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / -	- / -	- / -	- / 0.300	- / -	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / 0.300	
<i>Subtotal: Non-Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.300</i>	<i>- / -</i>	<i>- / 0.300</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.300</i>	
<i>Subtotal: 005-15 E-2D Aircraft ACD's</i>	<i>- / -</i>	<i>18 / 1.734</i>	<i>- / -</i>	<i>69 / 1.102</i>	<i>- / -</i>	<i>69 / 1.102</i>	<i>67 / 0.809</i>	<i>67 / 0.790</i>	<i>110 / 1.826</i>	<i>103 / 1.710</i>	<i>- / -</i>	<i>434 / 7.971</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / 1.734</i>	<i>- / -</i>	<i>- / 1.102</i>	<i>- / -</i>	<i>- / 1.102</i>	<i>- / 0.809</i>	<i>- / 0.790</i>	<i>- / 1.826</i>	<i>- / 1.710</i>	<i>- / -</i>	<i>- / 7.971</i>	
Support (All Modification Items)													
3.1) Data	- / -	- / 0.020	- / -	- / 0.050	- / -	- / 0.050	- / 0.033	- / 0.033	- / 0.031	- / 0.016	- / -	- / 0.183	
3.2) ILS ⁽¹⁰⁾	- / -	- / 0.061	- / 0.054	- / 0.276	- / -	- / 0.276	- / 0.106	- / 0.275	- / 0.275	- / 0.266	- / -	- / 1.313	
3.4) Support Equipment	- / -	- / -	- / -	- / 0.300	- / -	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / 0.300	
3.5) Other Support ⁽¹¹⁾	- / -	- / 0.075	- / 0.078	- / 0.130	- / -	- / 0.130	- / 0.133	- / 0.135	- / 0.221	- / 0.189	- / -	- / 0.961	
<i>Subtotal: Support</i>	<i>- / 0.000</i>	<i>- / 0.156</i>	<i>- / 0.132</i>	<i>- / 0.756</i>	<i>- / -</i>	<i>- / 0.756</i>	<i>- / 0.272</i>	<i>- / 0.443</i>	<i>- / 0.527</i>	<i>- / 0.471</i>	<i>- / -</i>	<i>- / 2.757</i>	
Installation													
<i>Modification Item 1 of 1: 005-15 E-2D Aircraft ACD's</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 1.408</i>	<i>- / 0.764</i>	<i>- / -</i>	<i>- / 0.764</i>	<i>- / 0.773</i>	<i>- / 0.764</i>	<i>- / 1.529</i>	<i>- / 1.473</i>	<i>- / -</i>	<i>- / 6.711</i>	
<i>Subtotal: Installation</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 1.408</i>	<i>- / 0.764</i>	<i>- / -</i>	<i>- / 0.764</i>	<i>- / 0.773</i>	<i>- / 0.764</i>	<i>- / 1.529</i>	<i>- / 1.473</i>	<i>- / -</i>	<i>- / 6.711</i>	
Total													
Total Cost (Procurement + Support + Installation)	0.000	1.890	1.540	2.622	-	2.622	1.854	1.997	3.882	3.654	-	17.439	

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Exhibit P-3a, Individual Modification: PB 2017 Navy						Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0544 / E-2 Series			Modification Number / Title: 6 / 005-15 E-2D Aircraft ACD's	
Modification Item 1 of 1: 005-15 E-2D Aircraft ACD's							
Manufacturer Information							
Manufacturer Name: E-2D Aircraft 1B ACD				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016					
Delivery Dates		Jul 2016					
Manufacturer Name: E-2D Aircraft 1C ACD				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016					
Delivery Dates		Jul 2016					
Manufacturer Name: E-2D Aircraft 2B ACD				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020
Delivery Dates			Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021
Manufacturer Name: E-2D Aircraft 3A ACD				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020
Delivery Dates			Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021
Manufacturer Name: E-2D Aircraft 4C ACD				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						Nov 2019	Nov 2020
Delivery Dates						Feb 2020	Feb 2021

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 6 / 005-15 E-2D Aircraft ACD's

Modification Item 1 of 1: 005-15 E-2D Aircraft ACD's

Installation Information

Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2D 1B ACD Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	8 / 0.748	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.748
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	8 / 0.748	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.748

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	-	-	-	-	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8

Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2D 1C ACD Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	10 / 0.660	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.660
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	10 / 0.660	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.660

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 6 / 005-15 E-2D Aircraft ACD's

Modification Item 1 of 1: 005-15 E-2D Aircraft ACD's

Installation Information

Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2D 1C ACD Kit

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	3	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	3	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: Field Mod Team:: Installation Name: E-2D 2B ACD Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	36 / 0.336	- / -	36 / 0.336	- / -	- / -	- / -	- / -	- / -	36 / 0.336
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.340	- / -	- / -	- / -	- / -	35 / 0.340
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.350	- / -	- / -	- / -	36 / 0.350
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.372	- / -	- / -	38 / 0.372
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.358	- / -	35 / 0.358
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	36 / 0.336	- / -	36 / 0.336	35 / 0.340	36 / 0.350	38 / 0.372	35 / 0.358	- / -	180 / 1.756

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	12	12	12	-	11	11	13	-	12	12	12	-	12	12	14	-	11	11	13	-	-
Out	-	-	-	-	-	-	-	-	-	-	12	12	12	-	11	11	13	-	12	12	12	-	12	12	14	-	11	11	13	-	-

Method of Implementation: Field Mod Team:: Installation Name: E-2D 3A ACD kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 6 / 005-15 E-2D Aircraft ACD's

Modification Item 1 of 1: 005-15 E-2D Aircraft ACD's

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D 3A ACD kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	33 / 0.428	- / -	33 / 0.428	- / -	- / -	- / -	- / -	- / -	33 / 0.428
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.433	- / -	- / -	- / -	- / -	32 / 0.433
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 0.414	- / -	- / -	- / -	31 / 0.414
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.476	- / -	- / -	36 / 0.476
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.471	- / -	34 / 0.471
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	33 / 0.428	- / -	33 / 0.428	32 / 0.433	31 / 0.414	36 / 0.476	34 / 0.471	- / -	166 / 2.222

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	11	11	11	-	10	10	12	-	10	10	11	-	12	12	12	-	11	11	12	-	166
Out	-	-	-	-	-	-	-	-	-	11	11	11	-	10	10	12	-	10	10	11	-	12	12	12	-	11	11	12	-	166

Method of Implementation: Field Mod Team:: Installation Name: E-2D 4C ACD kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.681	- / -	- / -	36 / 0.681
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.644	- / -	34 / 0.644
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.681	34 / 0.644	- / -	70 / 1.325

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 6 / 005-15 E-2D Aircraft ACD's
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Modification Item 1 of 1: 005-15 E-2D Aircraft ACD's

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D 4C ACD kit

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	-	12	11	11	-	70	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	-	12	11	11	-	70	

Footnotes:

- (7) Kits are made up of multiple ACDs needed for the Fleet in each fiscal year.
- (8) Kits are made up of multiple ACDs needed for the Fleet in each fiscal year.
- (9) Kits are made up of multiple ACDs needed for the Fleet in each fiscal year.
- (10) ILS fluctuates depending on the amount of support needed by the Fleet in each fiscal year.
- (11) Support increases in FY20 are due to the increase in the number of ACDs that will need oversight.

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 7 / 009-16 E-2D AIS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	1.338	3.669	-	3.669	1.234	0.498	-	-	-	6.739
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	-	1.338	3.669	-	3.669	1.234	0.498	-	-	-	6.739
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	1.338	3.669	-	3.669	1.234	0.498	-	-	-	6.739
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Automatic Identification System (AIS) is a tracking system which provides identification, course and speed of maritime surface vessels. E-2D AIS is a critical component in developing and maintaining the common tactical picture for naval and joint forces. AIS will provide enhanced maritime target Combat ID capability in support of Battlefield Management, Command and Control (BMC2) and Surface Warfare (SUW) mission capability. E-2D AIS supports Combat Identification (CID) gap identified at Fleet Forces Command (FFC) war gaming workshop and is an E-2D Capability Development Document (CDD) requirement (JROC approved March 3, 2009). AIS is already incorporated in the E-2C.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

E-2D AIS system development and design completed in FY13. Flight test began in FY15. Procurement of kits will begin in FY16.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 7 / 009-16 E-2D AIS			
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 009-16 E-2D AIS													
A Kits													
Recurring													
1.1.1) E-2D AIS - NonOrganic ⁽¹²⁾	- / -	- / -	14 / 0.165	10 / 0.149	- / -	10 / 0.149	10 / 0.152	- / -	- / -	- / -	- / -	34 / 0.466	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 0.165	- / 0.149	- / -	- / 0.149	- / 0.152	- / -	- / -	- / -	- / -	- / 0.466	
B Kits													
Recurring													
2.1.1) E-2D AIS - Organic	- / -	- / -	14 / 0.345	10 / 0.177	- / -	10 / 0.177	10 / 0.182	- / -	- / -	- / -	- / -	34 / 0.704	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 0.345	- / 0.177	- / -	- / 0.177	- / 0.182	- / -	- / -	- / -	- / -	- / 0.704	
<i>Subtotal: 009-16 E-2D AIS</i>	- / -	- / -	28 / 0.510	20 / 0.326	- / -	20 / 0.326	20 / 0.334	- / -	- / -	- / -	- / -	68 / 1.170	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 0.510	- / 0.326	- / -	- / 0.326	- / 0.334	- / -	- / -	- / -	- / -	- / 1.170	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.022	
3.2) ILS	- / -	- / -	- / 0.139	- / 0.133	- / -	- / 0.133	- / 0.029	- / 0.016	- / -	- / -	- / -	- / 0.317	
3.3) Training Equipment ⁽¹³⁾	- / -	- / -	- / 0.337	- / 2.700	- / -	- / 2.700	- / 0.163	- / -	- / -	- / -	- / -	- / 3.200	
3.4) Support Equipment	- / -	- / -	- / 0.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.030	
3.5) Other Support ⁽¹⁴⁾	- / -	- / -	- / 0.300	- / 0.324	- / -	- / 0.324	- / 0.573	- / 0.344	- / -	- / -	- / -	- / 1.541	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 0.828	- / 3.157	- / -	- / 3.157	- / 0.765	- / 0.360	- / -	- / -	- / -	- / 5.110	
Installation													
<i>Modification Item 1 of 1:</i> 009-16 E-2D AIS	- / 0.000	- / -	- / -	- / 0.186	- / -	- / 0.186	- / 0.135	- / 0.138	- / -	- / -	- / -	- / 0.459	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 0.186	- / -	- / 0.186	- / 0.135	- / 0.138	- / -	- / -	- / -	- / 0.459	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	1.338	3.669	-	3.669	1.234	0.498	-	-	-	6.739	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 7 / 009-16 E-2D AIS

Modification Item 1 of 1: 009-16 E-2D AIS

Manufacturer Information

Manufacturer Name: AIS	Manufacturer Location: FIELD MOD TEAM
Administrative Leadtime (in Months): 11	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Aug 2016	Aug 2017	Aug 2018			
Delivery Dates		Feb 2017	Feb 2018	Feb 2019			

Installation Information

Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2D AIS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	14 / 0.186	- / -	14 / 0.186	- / -	- / -	- / -	- / -	- / -	14 / 0.186
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.135	- / -	- / -	- / -	- / -	10 / 0.135
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.138	- / -	- / -	- / -	10 / 0.138
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	14 / 0.186	- / -	14 / 0.186	10 / 0.135	10 / 0.138	- / -	- / -	- / -	34 / 0.459

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	-	-	4	5	5	-	4	4	2	-	4	4	2	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	4	5	5	-	4	4	2	-	4	4	2	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation (Organic): E-2D AIS - Not Installed

Installation Quantity: 34

Footnotes:

(12) Quantity increase is due to AIS' planned cut into the production line on aircraft 35, versus 25.

(13) Trainer will go on contract in FY17.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 7 / 009-16 E-2D AIS

⁽¹⁴⁾ FY-19 support costs required for installs.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 8 / 001-17 LINK 16 (JTIDS for E-2C)
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	6.192	4.907	0.907	-	-	12.006
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	6.192	4.907	0.907	-	-	12.006
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	6.192	4.907	0.907	-	-	12.006

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Link-16 crypto modernization upgrades and frequency remapping capability as mandated by NSA, DoT and DoD respectively and field the Link 16 capability into the E-2C with the Joint Tactical Information Distribution System (JTIDS) terminal which will improve the performance against current existing data links. Operational Safety and Improvement Program 01-17 also supports the software effort to integrate application standards into the mission computer and displays.

Link-16 is an FY18 new start. The E-2C JPI kit development, being performed by SPAWAR PMW-150, has slipped one year to the right which resulted in the production contract (where the kits will be procured) to slip from FY17 to FY18.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: JTIDS crypto modernization and frequency remapping E-2C system integration design began in FY14. Flight Test begins in FY17. Procurement of kits will begin in FY18.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 8 / 001-17 LINK 16 (JTIDS for E-2C)			
Models of Systems Affected: E-2C					Modification Type: Mission Performance Enhancements					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 001-17 LINK 16 (JTIDS for E-2C)													
A Kits													
Recurring													
1.1.1) LINK 16 (MIDS/JTIDS for E-2C) - Organic ⁽¹⁵⁾	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.618	13 / 0.585	- / -	- / -	- / -	27 / 1.203	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.618	- / 0.585	- / -	- / -	- / -	- / 1.203	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / -	- / -	- / -	- / -	- / 0.400	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / -	- / -	- / -	- / -	- / 0.400	
B Kits													
Recurring													
2.1.1) LINK 16 (MIDS/JTIDS for E-2C) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	14 / 2.673	13 / 2.531	- / -	- / -	- / -	27 / 5.204	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.673	- / 2.531	- / -	- / -	- / -	- / 5.204	
<i>Subtotal: 001-17 LINK 16 (JTIDS for E-2C)</i>	- / -	- / -	- / -	- / -	- / -	- / -	28 / 3.691	26 / 3.116	- / -	- / -	- / -	54 / 6.807	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.691	- / 3.116	- / -	- / -	- / -	- / 6.807	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.114	- / 0.078	- / -	- / -	- / -	- / 0.192	
3.2) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.227	- / 0.215	- / 0.093	- / -	- / -	- / 0.535	
3.3) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.413	- / 0.188	- / 0.193	- / -	- / -	2 / 0.794	
3.4) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.065	- / 0.064	- / -	- / -	- / -	- / 0.129	
3.5) Other Support ⁽¹⁶⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.682	- / 1.246	- / 0.621	- / -	- / -	- / 3.549	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.501	- / 1.791	- / 0.907	- / -	- / -	- / 5.199	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	6.192	4.907	0.907	-	-	12.006	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 8 / 001-17 LINK 16 (JTIDS for E-2C)
<i>Modification Item 1 of 1:</i> 001-17 LINK 16 (JTIDS for E-2C)		
Installation Information		
Method of Implementation (Organic): LINK 16 (MIDS/JTIDS for E-2C)		Installation Quantity: 27
Method of Implementation (Organic): LINK 16 (MIDS/JTIDS for E-2C) - Not Installed		Installation Quantity: 27
<p>Footnotes:</p> <p>(15) Installation will be completed at the Operational Level. Quantities increased due to extended sundown timeline.</p> <p>(16) FY-20 support costs required for installs.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 9 / 008-17 E-2D IBS-USB-ENTR
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	1.144	-	1.144	5.663	1.780	1.501	1.430	0.524	12.042
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	1.144	-	1.144	5.663	1.780	1.501	1.430	0.524	12.042
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	1.144	-	1.144	5.663	1.780	1.501	1.430	0.524	12.042

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Integrating the Universal Serial Bus-Embedded National Tactical Receiver (USB-ENTR) provides the E-2D capability to receive Integrated Broadcast Service (IBS) intelligence data from national assets for real-time, emergent threat or Combat ID data, compressing tactical engagement timeline for both Naval Integrated Fire Control - Counter Air (NIFC-CA) kill chains. Version 4 is required due to obsolescence of Smart Mount. Due to obsolescence of E-2C legacy MATT receiver, it was not included in the E-2D baseline configuration. This capability will eliminate a high failure item seen in E-2C. This capability is an E-2D baseline Capability Design Document (CDD) threshold requirement and supports gap identified at Fleet Forces Command (FFC) wargaming workshop.

This effort is an FY17 New Start.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

E-2D IBS-USB-ENTR system development and design completed in FY13. Flight test began in FY15. Procurement of kits will begin in FY17.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 9 / 008-17 E-2D IBS-USB-ENTR			
Models of Systems Affected: E-2D					Modification Type: Missions Performance Enhancements					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 008-17 E-2D IBS-USB-ENTR</i>													
A Kits													
Recurring													
1.1.1) E-2D USB-ENTR - NonOrganic	- / -	- / -	- / -	5 / 0.029	- / -	5 / 0.029	10 / 0.059	10 / 0.061	10 / 0.062	9 / 0.057	- / -	44 / 0.268	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 0.029	- / -	- / 0.029	- / 0.059	- / 0.061	- / 0.062	- / 0.057	- / -	- / 0.268	
B Kits													
Recurring													
2.1.1) E-2D USB-ENTR - Organic	- / -	- / -	- / -	5 / 0.234	- / -	5 / 0.234	10 / 0.475	10 / 0.487	10 / 0.496	9 / 0.455	- / -	44 / 2.147	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 0.234	- / -	- / 0.234	- / 0.475	- / 0.487	- / 0.496	- / 0.455	- / -	- / 2.147	
<i>Subtotal: 008-17 E-2D IBS-USB-ENTR</i>	- / -	- / -	- / -	10 / 0.263	- / -	10 / 0.263	20 / 0.534	20 / 0.548	20 / 0.558	18 / 0.512	- / -	88 / 2.415	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 0.263	- / -	- / 0.263	- / 0.534	- / 0.548	- / 0.558	- / 0.512	- / -	- / 2.415	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / 0.042	- / -	- / 0.042	- / 0.043	- / -	- / -	- / -	- / -	- / 0.085	
3.2) ILS	- / -	- / -	- / -	- / 0.114	- / -	- / 0.114	- / 0.136	- / 0.101	- / 0.031	- / 0.030	- / 0.010	- / 0.422	
3.3) Training Equipment ⁽¹⁷⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.092	- / 0.198	- / -	- / -	- / -	- / 4.290	
3.4) Support Equipment	- / -	- / -	- / -	- / 0.058	- / -	- / 0.058	- / 0.059	- / -	- / -	- / -	- / -	- / 0.117	
3.5) Other Support	- / -	- / -	- / -	- / 0.667	- / -	- / 0.667	- / 0.682	- / 0.694	- / 0.669	- / 0.640	- / 0.286	- / 3.638	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 0.881	- / -	- / 0.881	- / 5.012	- / 0.993	- / 0.700	- / 0.670	- / 0.296	- / 8.552	
Installation													
<i>Modification Item 1 of 1: 008-17 E-2D IBS-USB-ENTR</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.117	- / 0.239	- / 0.243	- / 0.248	- / 0.228	- / 1.075	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.117	- / 0.239	- / 0.243	- / 0.248	- / 0.228	- / 1.075	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	1.144	-	1.144	5.663	1.780	1.501	1.430	0.524	12.042	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 9 / 008-17 E-2D IBS-USB-ENTR

Modification Item 1 of 1: 008-17 E-2D IBS-USB-ENTR

Manufacturer Information

Manufacturer Name: USB-ENTR	Manufacturer Location: FIELD MOD TEAM
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates			Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2D USB-ENTR

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.117	- / -	- / -	- / -	- / -	5 / 0.117
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.239	- / -	- / -	- / -	10 / 0.239
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.243	- / -	- / -	10 / 0.243
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.248	- / -	10 / 0.248
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.228	9 / 0.228
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.117	10 / 0.239	10 / 0.243	10 / 0.248	9 / 0.228	44 / 1.075

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	3	3	2	2	3	3	2	2	3	3	2	2	9	44
Out	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	3	3	2	2	3	3	2	2	3	3	2	2	9	44

Method of Implementation (Organic): E-2D USB-ENTR - Not Installed

Installation Quantity: 44

Footnotes:

(17) Trainer will go on contract in FY18.

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 10 / 012-17 Structural Enhancements
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	3.900	-	3.900	9.100	9.200	9.100	6.500	-	37.800
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	3.900	-	3.900	9.100	9.200	9.100	6.500	-	37.800
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	3.900	-	3.900	9.100	9.200	9.100	6.500	-	37.800

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The structural modifications to the E-2 series aircraft specifically target improvements to the structural integrity and support costs. These improvements are a vital requirement for E-2 to maintain the aircraft in the Fleet until the planned sundown. Modifying the wing center section will prevent structural cracks due to fatigue. This effort will sustain the E-2 Fleet in an affordable manner until the follow-on aircraft are fully fielded.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Modifications to the E-2 wing center section will begin in FY17.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 10 / 012-17 Structural Enhancements			
Models of Systems Affected: E-2				Modification Type: Air Vehicle				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 012-17 Structural Enhancements													
A Kits													
Recurring													
1.1.1) Wing Center Modification - NonOrganic	- / -	- / -	- / -	6 / 1.334	- / -	6 / 1.334	6 / 1.361	6 / 1.388	5 / 1.180	- / -	- / -	23 / 5.263	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 1.334	- / -	- / 1.334	- / 1.361	- / 1.388	- / 1.180	- / -	- / -	- / 5.263	
<i>Subtotal: 012-17 Structural Enhancements</i>	- / -	- / -	- / -	6 / 1.334	- / -	6 / 1.334	6 / 1.361	6 / 1.388	5 / 1.180	- / -	- / -	23 / 5.263	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 1.334	- / -	- / 1.334	- / 1.361	- / 1.388	- / 1.180	- / -	- / -	- / 5.263	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / 0.279	- / -	- / 0.279	- / 0.285	- / -	- / -	- / -	- / -	- / 0.564	
3.2) ILS	- / -	- / -	- / -	- / 0.317	- / -	- / 0.317	- / 0.638	- / 0.833	- / 0.842	- / 0.655	- / -	- / 3.285	
3.4) Support Equipment N/R ⁽¹⁸⁾	- / -	- / -	- / -	- / 0.124	- / -	- / 0.124	- / 0.084	- / -	- / -	- / -	- / -	- / 0.208	
3.5) Other Support ⁽¹⁹⁾	- / -	- / -	- / -	- / 1.846	- / -	- / 1.846	- / 2.809	- / 2.977	- / 2.997	- / 2.375	- / -	- / 13.004	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 2.566	- / -	- / 2.566	- / 3.816	- / 3.810	- / 3.839	- / 3.030	- / -	- / 17.061	
Installation													
<i>Modification Item 1 of 1:</i> 012-17 Structural Enhancements	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.923	- / 4.002	- / 4.081	- / 3.470	- / -	- / 15.476	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.923	- / 4.002	- / 4.081	- / 3.470	- / -	- / 15.476	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	3.900	-	3.900	9.100	9.200	9.100	6.500	-	37.800	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 10 / 012-17 Structural Enhancements

Modification Item 1 of 1: 012-17 Structural Enhancements

Manufacturer Information

Manufacturer Name: WCS	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	
Delivery Dates			Sep 2017	Sep 2018	Sep 2019	Sep 2020	

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Wing Center Modification

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.923	- / -	- / -	- / -	- / -	6 / 3.923
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 4.002	- / -	- / -	- / -	6 / 4.002
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 4.081	- / -	- / -	6 / 4.081
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 3.470	- / -	5 / 3.470
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.923	6 / 4.002	6 / 4.081	5 / 3.470	- / -	23 / 15.476

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	-	2	2	2	-	2	2	1	-	-	23
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	-	2	2	2	-	2	2	1	-	-	23

Footnotes:

- (18) Support Equipment needed to stand up field mod team starting in FY17.
- (19) FY-21 support costs required for installs.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 11 / 013-17 Network File Server
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	5.346	-	5.346	0.556	-	-	-	-	5.902
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	-	-	5.346	-	5.346	0.556	-	-	-	-	5.902
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	-	5.346	-	5.346	0.556	-	-	-	-	5.902

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The E-2D aircraft utilize TS-282 FN E-2D Network File Servers (NFS) to load software programs and record data directly associated with the planned and tactical activity during the performance of its missions. This program is to retrofit the NFS into E-2D aircraft.

TS-282 FN E-2D Network File Servers (NFS) upgrade is an FY17 new start. Basis for FY17 is to procure 40 Network File Servers and its associated support.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The Preliminary Design Review was completed in the 1st QTR of FY12. Procurement of kits will begin in 2nd QTR of FY17.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 11 / 013-17 Network File Server

Models of Systems Affected: E-2	Modification Type: Mission Performance Enhancements	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: 013-17 Network File Server</i>												
A Kits												
Recurring												
1.1.1) NFS kits - Organic ⁽²⁰⁾	- / -	- / -	- / -	40 / 4.835	- / -	40 / 4.835	- / -	- / -	- / -	- / -	- / -	40 / 4.835
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 4.835	- / -	- / 4.835	- / -	- / -	- / -	- / -	- / -	- / 4.835
<i>Subtotal: 013-17 Network File Server</i>	- / -	- / -	- / -	40 / 4.835	- / -	40 / 4.835	- / -	- / -	- / -	- / -	- / -	40 / 4.835
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 4.835	- / -	- / 4.835	- / -	- / -	- / -	- / -	- / -	- / 4.835
Support (All Modification Items)												
3.1) Data	- / -	- / -	- / -	- / 0.085	- / -	- / 0.085	- / -	- / -	- / -	- / -	- / -	- / 0.085
3.2) ILS	- / -	- / -	- / -	- / 0.150	- / -	- / 0.150	- / 0.153	- / -	- / -	- / -	- / -	- / 0.303
3.5) Other Support ⁽²¹⁾	- / -	- / -	- / -	- / 0.276	- / -	- / 0.276	- / 0.403	- / -	- / -	- / -	- / -	- / 0.679
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 0.511	- / -	- / 0.511	- / 0.556	- / -	- / -	- / -	- / -	- / 1.067
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	-	-	5.346	-	5.346	0.556	-	-	-	-	5.902

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 11 / 013-17 Network File Server
<i>Modification Item 1 of 1:</i> 013-17 Network File Server		
Installation Information		
Method of Implementation (Organic): NFS kits		Installation Quantity: 40

Footnotes:

(20) Installation is at the Operational Level.

(21) FY-18 support costs required for installs.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 12 / 001-18 E-2D MIDS/JTRS TTNT
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	17.913	15.617	16.092	16.539	13.263	79.424
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	17.913	15.617	16.092	16.539	13.263	79.424
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	17.913	15.617	16.092	16.539	13.263	79.424

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Funding will be used to integrate and field the Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) with the Tactical Targeting Network Technology (TTNT) wave form. This capability will integrate the current E-2D Link-16 data link architecture with a time-sensitive targeting technology as part of the Naval Integrated Fire Control-Counter Air concept for fleet air and missile defense.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

MIDS/JTRS TTNT system development and design began in FY14. Flight test occurs in FY16. Procurement of kits will begin in FY18.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 12 / 001-18 E-2D MIDS/JTRS TTNT			
Models of Systems Affected: E-2D					Modification Type: Mission Performance Enhancements					Related RDT&E PEs: 0604234N			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 001-18 E-2D MIDS/JTRS TTNT													
A Kits													
Recurring													
1.1.1) E-2D MIDS/JTRS TTNT - NonOrganic ⁽²²⁾	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.458	10 / 0.468	10 / 0.476	10 / 0.487	10 / 0.495	50 / 2.384	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.458	- / 0.468	- / 0.476	- / 0.487	- / 0.495	- / 2.384	
B Kits													
Recurring													
2.1.1) E-2D MIDS/JTRS - Organic	- / -	- / -	- / -	- / -	- / -	- / -	20 / 8.478	20 / 8.639	20 / 8.811	20 / 8.979	20 / 9.158	100 / 44.065	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 8.478	- / 8.639	- / 8.811	- / 8.979	- / 9.158	- / 44.065	
<i>Subtotal: 001-18 E-2D MIDS/JTRS TTNT</i>	- / -	- / -	- / -	- / -	- / -	- / -	30 / 8.936	30 / 9.107	30 / 9.287	30 / 9.466	30 / 9.653	150 / 46.449	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 8.936	- / 9.107	- / 9.287	- / 9.466	- / 9.653	- / 46.449	
Support (All Modification Items)													
3.1) Data ⁽²³⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.725	- / 0.491	- / 0.426	- / 0.475	- / -	- / 2.117	
3.2) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.797	- / 1.036	- / 1.068	- / 1.056	- / 0.343	- / 4.300	
3.3) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.455	- / 0.143	- / 0.145	- / -	- / -	- / 4.743	
3.4) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.007	- / 1.274	- / 1.529	- / 1.835	- / -	- / 5.645	
3.5) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.993	- / 2.284	- / 2.329	- / 2.375	- / 0.523	- / 9.504	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 8.977	- / 5.228	- / 5.497	- / 5.741	- / 0.866	- / 26.309	
Installation													
<i>Modification Item 1 of 1:</i> 001-18 E-2D MIDS/JTRS TTNT	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.282	- / 1.308	- / 1.332	- / 2.744	- / 6.666	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.282	- / 1.308	- / 1.332	- / 2.744	- / 6.666	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	17.913	15.617	16.092	16.539	13.263	79.424	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 12 / 001-18 E-2D MIDS/JTRS TTNT

Modification Item 1 of 1: 001-18 E-2D MIDS/JTRS TTNT

Manufacturer Information

Manufacturer Name: MIDS/JTRS	Manufacturer Location: FIELD MOD TEAM
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates				Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2D MIDS/JTRS TTNT

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.282	- / -	- / -	- / -	10 / 1.282
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.308	- / -	- / -	10 / 1.308
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.332	- / -	10 / 1.332
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.359	10 / 1.359
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.385	10 / 1.385
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.282	10 / 1.308	10 / 1.332	20 / 2.744	50 / 6.666

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	1	3	3	3	1	3	3	2	2	20	50
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	1	3	3	3	1	3	3	2	2	20	50

Method of Implementation (Organic): E-2D MIDS/JTRS - Not Installed

Installation Quantity: 100

Footnotes:

(22) MIDS/JTRS plan to cut into the production line at aircraft 52.

(23) FY18 includes the delivery of Technical Directives.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 13 / 002-18 E-2D Aerial Refueling
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	32.128	47.720	49.823	54.084	251.395	435.150
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	32.128	47.720	49.823	54.084	251.395	435.150
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	32.128	47.720	49.823	54.084	251.395	435.150

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The E-2D Aerial Refueling (AR) OSIP (2-18), will allow the E-2 to receive fuel from various organic and non-organic tanker aircraft. It will provide Expanded Battle Space Surveillance and Targeting through significantly enhanced persistence and increased flexibility (range & endurance).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Aerial Refueling risk reduction began in FY12. Engineering & Manufacturing Development began in FY13. Preliminary Design Review was 4th quarter FY14 and Critical Design Review was in 3rd quarter FY15. Flight test occurs in FY17. Procurement of kits will begin in FY18.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 13 / 002-18 E-2D Aerial Refueling			
Models of Systems Affected: E-2D					Modification Type: Mission Performance Enhancements					Related RDT&E PEs: 0604234N			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 002-18 E-2D Aerial Refueling													
A Kits													
Recurring													
1.1.1) E-2D Aerial Refueling - NonOrganic ⁽²⁴⁾	- / -	- / -	- / -	- / -	- / -	- / -	5 / 3.923	5 / 4.002	5 / 4.082	5 / 4.204	23 / 20.261	43 / 36.472	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.923	- / 4.002	- / 4.082	- / 4.204	- / 20.261	- / 36.472	
Non-Recurring													
1.2.1) Non-recurring Engineering - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.500	- / -	- / -	- / -	- / -	- / 1.500	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.500	- / -	- / -	- / -	- / -	- / 1.500	
B Kits													
Recurring													
2.1.1) E-2D Aerial Refueling - Organic	- / -	- / -	- / -	- / -	- / -	- / -	5 / 4.152	5 / 4.235	5 / 4.319	5 / 4.450	23 / 21.443	43 / 38.599	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 4.152	- / 4.235	- / 4.319	- / 4.450	- / 21.443	- / 38.599	
Subtotal: 002-18 E-2D Aerial Refueling	- / -	- / -	- / -	- / -	- / -	- / -	10 / 9.575	10 / 8.237	10 / 8.401	10 / 8.654	46 / 41.704	86 / 76.571	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 9.575	- / 8.237	- / 8.401	- / 8.654	- / 41.704	- / 76.571	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.250	- / 0.841	- / 0.857	- / 0.874	- / -	- / 3.822	
3.2) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.632	- / 2.896	- / 2.977	- / 4.115	- / 21.319	- / 32.939	
3.3) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	6 / 7.253	- / 6.953	- / 7.319	- / 7.467	- / -	6 / 28.992	
3.4) Support Equipment ⁽²⁵⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.559	- / 1.116	- / 1.139	- / 1.374	- / 7.715	- / 20.903	
3.5) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.859	- / 4.943	- / 5.942	- / 7.690	- / 39.922	- / 61.356	
Subtotal: Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 22.553	- / 16.749	- / 18.234	- / 21.520	- / 68.956	- / 148.012	
Installation													
Modification Item 1 of 1: 002-18 E-2D Aerial Refueling	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.734	- / 23.188	- / 23.910	- / 140.735	- / 210.567	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.734	- / 23.188	- / 23.910	- / 140.735	- / 210.567	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	32.128	47.720	49.823	54.084	251.395	435.150	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 13 / 002-18 E-2D Aerial Refueling

Modification Item 1 of 1: 002-18 E-2D Aerial Refueling

Manufacturer Information

Manufacturer Name: IFR	Manufacturer Location: FIELD MOD TEAM
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates				Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2D Aerial Refueling

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 22.734	- / -	- / -	- / -	5 / 22.734
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 23.188	- / -	- / -	5 / 23.188
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 23.910	- / -	5 / 23.910
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 24.125	5 / 24.125
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 116.610	23 / 116.610
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 22.734	5 / 23.188	5 / 23.910	28 / 140.735	43 / 210.567

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	2	2	1	-	2	2	1	-	28	43
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	2	2	1	-	2	2	1	-	28	43

Method of Implementation (Organic): E-2D Aerial Refueling - Not Installed **Installation Quantity:** 43

Footnotes:

(24) Aerial Refueling is planned to cut into the production line on aircraft 46. Installation will take four and half months.

(25) Multiple Support Equipment items are required in FY18 for the mod team which include: AR Probe Sling Cover, AR Protective Cover, AR Rigging Pin, AR Tool Set, AR Probe Fuel Purge Set, MA-2 Nozzle Removal Wrench, Control Breakpoint holding tool, MA-2 Nozzle Adaptor, Rigging Pin Accessory Set, Nitrogen Servicing Unit.

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 14 / 003-18 E-2D SIPR CHAT
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	10.210	5.983	5.853	4.322	5.113	31.481
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	10.210	5.983	5.853	4.322	5.113	31.481
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	10.210	5.983	5.853	4.322	5.113	31.481

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The E-2D Secret Internet Protocol Router Chat (SIPR) OSIP (3-18), will support the integration of current collaboration tools including tactical "chat" (text) communications, real-time tasking, and Air Tasking Order distribution. Recent real world operations have demonstrated a migration of Command and Control communications from voice to Internet protocol based networks.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

SIPR Chat system development and design began in FY14. Flight Test occurs in FY17. Procurement of kits will begin in FY18.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 14 / 003-18 E-2D SIPR CHAT			
Models of Systems Affected: E-2D					Modification Type: Mission Performance Enhancements					Related RDT&E PEs: 0604234N			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 003-18 E-2D SIPR CHAT</i>													
A Kits													
Recurring													
1.1.1) E-2D SIPR CHAT - NonOrganic ⁽²⁶⁾	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.352	10 / 0.358	10 / 0.365	10 / 0.372	10 / 0.380	50 / 1.827	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.352	- / 0.358	- / 0.365	- / 0.372	- / 0.380	- / 1.827	
B Kits													
Recurring													
2.1.1) E-2D SIPR CHAT - Organic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.000	10 / 2.038	10 / 2.077	10 / 2.116	10 / 2.156	50 / 10.387	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.000	- / 2.038	- / 2.077	- / 2.116	- / 2.156	- / 10.387	
<i>Subtotal: 003-18 E-2D SIPR CHAT</i>	- / -	- / -	- / -	- / -	- / -	- / -	20 / 2.352	20 / 2.396	20 / 2.442	20 / 2.488	20 / 2.536	100 / 12.214	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.352	- / 2.396	- / 2.442	- / 2.488	- / 2.536	- / 12.214	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.631	- / 0.421	- / 0.412	- / -	- / -	- / 1.464	
3.2) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.462	- / 0.296	- / 0.293	- / 0.213	- / 0.600	- / 1.864	
3.3) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.594	- / 0.360	- / 0.366	- / -	- / -	- / 5.320	
3.4) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.930	- / 0.946	- / 0.748	- / -	- / -	- / 2.624	
3.5) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.241	- / 1.263	- / 1.285	- / 1.308	- / 1.333	- / 6.430	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 7.858	- / 3.286	- / 3.104	- / 1.521	- / 1.933	- / 17.702	
Installation													
<i>Modification Item 1 of 1: 003-18 E-2D SIPR CHAT</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.301	- / 0.307	- / 0.313	- / 0.644	- / 1.565	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.301	- / 0.307	- / 0.313	- / 0.644	- / 1.565	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	10.210	5.983	5.853	4.322	5.113	31.481	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 14 / 003-18 E-2D SIPR CHAT

Modification Item 1 of 1: 003-18 E-2D SIPR CHAT

Manufacturer Information

Manufacturer Name: SIPRCHAT				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates				Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: FIELD MOD TEAM:: Installation Name: E-2D SIPR CHAT

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.301	- / -	- / -	- / -	10 / 0.301
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.307	- / -	- / -	10 / 0.307
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.313	- / -	10 / 0.313
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.319	10 / 0.319
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.325	10 / 0.325
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.301	10 / 0.307	10 / 0.313	20 / 0.644	50 / 1.565

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	1	3	3	3	1	3	3	2	2	20	50
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	1	3	3	3	1	3	3	2	2	20	50

Method of Implementation (Organic): E-2D SIPR CHAT - Not Installed

Installation Quantity: 50

Footnotes:

⁽²⁶⁾ SIPR CHAT is planned to cut into the production line at aircraft 52.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 15 / 007-18 Crypto Modernization
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	5.953	5.909	5.895	3.669	0.805	22.231
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	5.953	5.909	5.895	3.669	0.805	22.231
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	5.953	5.909	5.895	3.669	0.805	22.231

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Description:
 Funding will be used to integrate and field the Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) with Concurrent Multi-Netting 4. This capability will integrate the current E-2D Link -16 data link architecture with Crypto Modernization and Frequency Remapping with Concurrent Contention Receive and Concurrent Multi-Netting.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 15 / 007-18 Crypto Modernization			
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancement				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: 007-18 Crypto Modernization</i>													
A Kits													
Recurring													
1.1.1) CMN-4 Cabling - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.121	10 / 0.123	10 / 0.126	5 / 0.064	- / -	35 / 0.434	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.121</i>	<i>- / 0.123</i>	<i>- / 0.126</i>	<i>- / 0.064</i>	<i>- / -</i>	<i>- / 0.434</i>	
B Kits													
Recurring													
2.1.1) MIDS/JTRS with CMN-4 radio and Amplifier - Organic	- / -	- / -	- / -	- / -	- / -	- / -	20 / 4.592	20 / 4.599	20 / 4.692	10 / 2.453	- / -	70 / 16.336	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 4.592</i>	<i>- / 4.599</i>	<i>- / 4.692</i>	<i>- / 2.453</i>	<i>- / -</i>	<i>- / 16.336</i>	
<i>Subtotal: 007-18 Crypto Modernization</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>30 / 4.713</i>	<i>30 / 4.722</i>	<i>30 / 4.818</i>	<i>15 / 2.517</i>	<i>- / -</i>	<i>105 / 16.770</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 4.713</i>	<i>- / 4.722</i>	<i>- / 4.818</i>	<i>- / 2.517</i>	<i>- / -</i>	<i>- / 16.770</i>	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.208	- / 0.142	- / 0.144	- / 0.173	- / -	- / 0.667	
3.2) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.115	- / 0.170	- / 0.174	- / 0.179	- / -	- / 0.638	
3.4) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.289	- / 0.174	- / -	- / -	- / -	- / 0.463	
3.5) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.628	- / 0.681	- / 0.738	- / 0.779	- / 0.794	- / 3.620	
<i>Subtotal: Support</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.240</i>	<i>- / 1.167</i>	<i>- / 1.056</i>	<i>- / 1.131</i>	<i>- / 0.794</i>	<i>- / 5.388</i>	
Installation													
<i>Modification Item 1 of 1: 007-18 Crypto Modernization</i>													
<i>Subtotal: Installation</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.020</i>	<i>- / 0.021</i>	<i>- / 0.021</i>	<i>- / 0.011</i>	<i>- / 0.073</i>	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	5.953	5.909	5.895	3.669	0.805	22.231	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 15 / 007-18 Crypto Modernization

Modification Item 1 of 1: 007-18 Crypto Modernization

Manufacturer Information

Manufacturer Name: CMN-4				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates				Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: Field Mod Install:: Installation Name: CMN-4 Cabling

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.020	- / -	- / -	- / -	10 / 0.020
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.021	- / -	- / -	10 / 0.021
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.021	- / -	10 / 0.021
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.011	5 / 0.011
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.020	10 / 0.021	10 / 0.021	5 / 0.011	35 / 0.073

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	2	2	3	3	2	2	3	3	2	2	5	35
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	2	2	3	3	2	2	3	3	2	2	5	35

Method of Implementation (Organic): MIDS/JTRS with CMN-4 radio and Amplifier

Installation Quantity: 70

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 16 / 006-19 GPS Modernization
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	-	1.300	3.800	10.400	19.426	34.926
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	-	1.300	3.800	10.400	19.426	34.926
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	-	1.300	3.800	10.400	19.426	34.926

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Provides Naval platforms improved access to Global Positioning System signals in challenged and jamming environments. Modernized GPS receivers to utilize the new M-Code GPS Signal in Space, incorporate enhanced cryptology, deliver greater position and time accuracy, provide improved protection against signal spoofing as compared to legacy Selective Anti-jam Anti-Spoof Module (SAASM) receivers and to replace an obsolescence issue. Additionally, GPS Modernization delivers increased GPS anti-jam protection and enables blue force GPS electronic attack. Plays a pivotal role in Anti-Access Area Denial (A2AD) fight. Operationalizes risk reduction efforts currently underway by the Air Force and integrates it into Naval ships, submarines, aircraft, weapons systems, and GPS enabled systems imbedded on those platforms. Enables compliance with Public Law 111-383 and Office of the Secretary of Defense Oversight Council guidance.

GPS Modernization is an FY19 new start.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 16 / 006-19 GPS Modernization			
Models of Systems Affected: E-2					Modification Type: Mission Performance Enhancement					Related RDT&E PEs: 0604777N			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 006-19 GPS Modernization</i>													
B Kits													
Recurring													
2.1.1) GPS Modernization - NonOrganic ⁽²⁷⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.594	10 / 3.028	20 / 6.176	29 / 9.192	61 / 18.990	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.594	- / 3.028	- / 6.176	- / 9.192	- / 18.990	
<i>Subtotal: 006-19 GPS Modernization</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.594	10 / 3.028	20 / 6.176	29 / 9.192	61 / 18.990	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.594	- / 3.028	- / 6.176	- / 9.192	- / 18.990	
Support (All Modification Items)													
3.2) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.642	- / 3.098	- / 4.740	
3.5) Other Support ⁽²⁸⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.706	- / 0.703	- / 2.226	- / 5.329	- / 8.964	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.706	- / 0.703	- / 3.868	- / 8.427	- / 13.704	
Installation													
<i>Modification Item 1 of 1: 006-19 GPS Modernization</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.069	- / 0.356	- / 1.807	- / 2.232	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.069	- / 0.356	- / 1.807	- / 2.232	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	-	1.300	3.800	10.400	19.426	34.926	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 16 / 006-19 GPS Modernization

Modification Item 1 of 1: 006-19 GPS Modernization

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 9

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Mar 2019	Mar 2020	Mar 2021
Delivery Dates					Dec 2019	Dec 2020	Dec 2021

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: GPS Modernization

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.069	- / -	- / -	2 / 0.069
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.356	- / -	10 / 0.356
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.726	20 / 0.726
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 1.081	29 / 1.081
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.069	10 / 0.356	49 / 1.807	61 / 2.232

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	10	-	-	-	49	61
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	10	-	-	-	49	61

Footnotes:

(27) 2 Global Positioning System boxes per aircraft. FY19 buy is for validation/verification testing.

(28) Funding in FY22 is needed to support installs.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 17 / 002-20 Electronic Support Measures				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	-	30.786	31.381	46.834	109.001
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	-	30.786	31.381	46.834	109.001
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	-	30.786	31.381	46.834	109.001
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

E-2D Electronic Support Measures (ESM) Combat Identification (CID) upgrade integrates digital receiver and processing technology, enables E-2 multi-ship geo-location and Time Difference of Arrival (TDOA) with other sensors across Link-16 and Tactical Targeting Network Technology (TTNT), and provides a precision internal clock source to enable netted detection of advanced threat radar systems. Connectivity to Electronic Warfare (EW) netted sensors will provide multiple node, real-time, enhanced CID capabilities. The digital upgrade greatly enhances CID and battlespace awareness, and improve effectiveness of blue forces.

E-2D Electronic Support Measures (ESM) Combat Identification (CID) upgrade is an FY20 new start. Basis for FY20 is to procure ESM upgrades and its associated support costs.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The Preliminary Design Review will be completed in 2nd QTR of FY18. Procurement of kits will begin in FY20.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 17 / 002-20 Electronic Support Measures			
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 002-20 Electronic Support Measures</i>													
A Kits													
Recurring													
1.1.1) Electronic Support Measures - NonOrganic ⁽²⁹⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.585	12 / 1.617	24 / 3.331	48 / 6.533	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.585	- / 1.617	- / 3.331	- / 6.533	
B Kits													
Recurring													
2.1.1) Electronic Support Measures - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 16.258	12 / 16.745	24 / 35.014	48 / 68.017	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.258	- / 16.745	- / 35.014	- / 68.017	
<i>Subtotal: 002-20 Electronic Support Measures</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 17.843	24 / 18.362	48 / 38.345	96 / 74.550	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.843	- / 18.362	- / 38.345	- / 74.550	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.369	- / 0.931	- / -	- / 2.300	
3.2) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.948	- / 6.959	- / 2.655	- / 16.562	
3.4) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.902	- / 1.940	- / -	- / 3.842	
3.5) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.724	- / 2.752	- / 4.036	- / 9.512	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.943	- / 12.582	- / 6.691	- / 32.216	
Installation													
<i>Modification Item 1 of 1: 002-20 Electronic Support Measures</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.437	- / 1.798	- / 2.235	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.437	- / 1.798	- / 2.235	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	-	-	30.786	31.381	46.834	109.001	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 17 / 002-20 Electronic Support Measures

Modification Item 1 of 1: 002-20 Electronic Support Measures

Manufacturer Information

Manufacturer Name: ALQ-217 ESM	Manufacturer Location: Depot Field Mod Team
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						May 2020	May 2021
Delivery Dates						Sep 2020	Sep 2021

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: Electronic Support Measures

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.437	- / -	12 / 0.437
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.445	12 / 0.445
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.353	24 / 1.353
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.437	36 / 1.798	48 / 2.235

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	-	36	48
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	-	36	48

Method of Implementation (Organic): Electronic Support Measures - Not Installed

Installation Quantity: 48

Footnotes:

⁽²⁹⁾ ESM is planned to cut into the production line at aircraft 52.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 18 / Inactive OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,292.228	-	-	-	-	-	-	-	-	-	-	1,292.228
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	1,292.228	-	-	-	-	-	-	-	-	-	-	1,292.228
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1,292.228	-	-	-	-	-	-	-	-	-	-	1,292.228
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 18 / Inactive OSIPs			
Models of Systems Affected: [No Model Specified]					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Inactive OSIPs</i>													
A Kits													
Recurring													
1.1.1) INACTIVE OSIPs - Organic	- / 1,292.228	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,292.228	
<i>Subtotal: Recurring</i>	- / 1,292.228	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,292.228	
<i>Subtotal: Inactive OSIPs</i>	- / 1,292.228	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,292.228	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1,292.228	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,292.228	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	1,292.228	-	-	-	-	-	-	-	-	-	-	1,292.228	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 18 / Inactive OSIPs
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0549 / Trainer Acft Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	202.546	10.208	27.980	13.199	-	13.199	11.367	8.996	3.613	26.634	-	304.543
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	202.546	10.208	27.980	13.199	-	13.199	11.367	8.996	3.613	26.634	-	304.543
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	202.546	10.208	27.980	13.199	-	13.199	11.367	8.996	3.613	26.634	-	304.543

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in TRAINER ACFT SERIES by \$0.560M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

The FY 2017 funding request was reduced by \$1.586M to account for the availability of prior year execution balances.

This line item funds modifications to a group of trainer aircraft which includes T-44A/C and TH-57. The trainer aircraft are described as follows: The T-44 is a twin-engine, multi-seat turboprop aircraft produced by Hawker Beech Aircraft used to simulate operation of multi-engine aircraft, specifically the P-3. Current plans call for T-44 to fly its training mission until 2025 with a possible multiyear extension. The TH-57 is a single-engine, multi-seat rotary wing aircraft used for helicopter training. The overall goal of the modification is to maintain safe and reliable operation of the trainer aircraft through the timely installation of necessary changes. The TH-57 has no documented Service Life Remaining. The airframe and dynamic components can be sustained indefinitely (although at higher costs as time goes on). The avionics has several upcoming obsolescence issues that will require replacement systems (KNS-81, Mini-Stabilization Computer, TACAN). Total numbers for T-44 and TH-57 aircraft are 54 and 126, respectively.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0549 / Trainer Acft Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE (Safety)			- / 117.316	- / 3.060	- / 2.181	- / 4.387	- / -	- / 4.387
P-3a	2 / OSIP 006-07 TH-57 SAFETY UPGRADE (Conversion/Safety)			- / 34.056	- / 7.148	- / 25.799	- / 8.812	- / -	- / 8.812
P-3a	3 / Inactive OSIPs (TBD)			- / 51.174	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 202.546	- / 10.208	- / 27.980	- / 13.199	- / -	- / 13.199

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE (Safety)			- / 2.667	- / 1.706	- / -	- / -	- / -	- / 131.317
P-3a	2 / OSIP 006-07 TH-57 SAFETY UPGRADE (Conversion/Safety)			- / 8.700	- / 7.290	- / 3.613	- / 26.634	- / -	- / 122.052
P-3a	3 / Inactive OSIPs (TBD)			- / -	- / -	- / -	- / -	- / -	- / 51.174
P-40	Total Gross/Weapon System Cost			- / 11.367	- / 8.996	- / 3.613	- / 26.634	- / -	- / 304.543

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0549 / Trainer Acft Series				Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSELESCENCE				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	117.316	3.060	2.181	4.387	-	4.387	2.667	1.706	-	-	-	131.317
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	117.316	3.060	2.181	4.387	-	4.387	2.667	1.706	-	-	-	131.317
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	117.316	3.060	2.181	4.387	-	4.387	2.667	1.706	-	-	-	131.317
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The T-44A Avionics are becoming unsupportable due to non-availability of parts. The following analog avionics systems require replacement: NCS-31A Area Navigation/Control System, AP-106 Autopilot, Flight Director, digital engine gauges and the RDR-130 Weather Radar. Following these avionics obsolescence modifications, the T-44A aircraft are re-designated T-44Cs. Avionics are being returned from the repair vendor Beyond Economical Repair (BER) due to non-availability of parts. As avionics become BER due to lack of parts, spares are being depleted and are not available in the commercial market. Lack of avionics will ground aircraft and severely degrade Chief of Naval Air Training's ability to meet Pilot Training Requirements. Current plans call for T-44 to fly its training mission until 2025 with a possible multiyear extension. FY16-20 includes the addition of the new Automatic Dependent Surveillance-Broadcast Out (ADS-B Out) capability for the T44. This capability will be required to comply with the FAA mandated Automatic Dependent Surveillance Broadcast (ADS-B Out) no later than 1 January 2020. This capability upgrade will be incorporated into the aircraft avionics hardware and software components along with training courseware and hardware.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

FY16-19 includes the addition of the new Automatic Dependent Surveillance-Broadcast Out (ADS-B Out) capability for the T44. This capability will be required to comply with the FAA mandated hardware. ADS-B Out is mandated for implementation no later than 1 January 2020. This capability upgrade will be incorporated into the aircraft avionics hardware and software components along with training courseware and hardware.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0549 / Trainer Acft Series					Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBsolescence			
Models of Systems Affected: T-44A/C				Modification Type: Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 2: Installation Kits													
A Kits													
Recurring													
1.1.1) Install Kits - A kits (A to C Conversion) - NonOrganic ⁽¹⁾	54 / 13.266	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 13.266	
1.1.2) ADS-B Out - NonOrganic ⁽²⁾	- / -	- / -	2 / 2.181	24 / 3.727	- / -	24 / 3.727	24 / 2.027	4 / 1.386	- / -	- / -	- / -	54 / 9.321	
Subtotal: Recurring	- / 13.266	- / -	- / 2.181	- / 3.727	- / -	- / 3.727	- / 2.027	- / 1.386	- / -	- / -	- / -	- / 22.587	
Non-Recurring													
1.2.1) Installation Kits Non-recurring - Organic	3 / 5.641	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.641	
Subtotal: Non-Recurring	- / 5.641	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.641	
Subtotal: Installation Kits	57 / 18.907	- / -	2 / 2.181	24 / 3.727	- / -	24 / 3.727	24 / 2.027	4 / 1.386	- / -	- / -	- / -	111 / 28.228	
Modification Item 2 of 2: Installation Equipment													
B Kits													
Recurring													
2.1.1) Install Kits - B kits - Organic	54 / 45.582	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 45.582	
2.1.2) Digital Engine Gauges - Depot Level Installed - NonOrganic ⁽³⁾	54 / 3.365	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 3.365	
Subtotal: Recurring	- / 48.947	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 48.947	
Subtotal: Installation Equipment	108 / 48.947	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	108 / 48.947	
Subtotal: Procurement, All Modification Items	- / 67.854	- / -	- / 2.181	- / 3.727	- / -	- / 3.727	- / 2.027	- / 1.386	- / -	- / -	- / -	- / 77.175	
Support (All Modification Items)													
3.2) DATA - Publications	- / 0.344	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.344	
3.3) Training Equipment	14 / 22.707	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 22.707	
3.5) Other Support ⁽⁴⁾	- / 14.134	- / 0.384	- / -	- / 0.160	- / -	- / 0.160	- / 0.140	- / 0.070	- / -	- / -	- / -	- / 14.888	
Subtotal: Support	- / 27.185	- / 0.384	- / -	- / 0.160	- / -	- / 0.160	- / 0.140	- / 0.070	- / -	- / -	- / -	- / 27.939	
Installation													
Modification Item 1 of 2: Installation Kits	- / 19.781	- / 0.320	- / -	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.250	- / -	- / -	- / -	- / 21.351	
Modification Item 2 of 2: Installation Equipment	- / 2.496	- / 2.356	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.852	
Subtotal: Installation	- / 22.277	- / 2.676	- / -	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.250	- / -	- / -	- / -	- / 26.203	
Total													

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE

Models of Systems Affected: T-44A/C			Modification Type: Safety					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total Cost (Procurement + Support + Installation)	117.316	3.060	2.181	4.387	-	4.387	2.667	1.706	-	-	-	131.317

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSCOLESCENCE

Modification Item 1 of 2: Installation Kits

Manufacturer Information

Manufacturer Name: TBD - ADS-B Out	Manufacturer Location: TBD
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 1

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jun 2016	Oct 2016	Oct 2017	Oct 2018		
Delivery Dates		Jul 2016	Nov 2016	Nov 2017	Nov 2018		

Manufacturer Name: A to C Conversion	Manufacturer Location: TBD
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Depot Level Installed:: Installation Name: Install Kits - A kits (A to C Conversion)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	49 / 19.781	5 / 0.320	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	54 / 20.101
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	49 / 19.781	5 / 0.320	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 20.101

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	49	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
Out	49	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE

Modification Item 1 of 2: Installation Kits

Installation Information

Method of Implementation: Depot Level Installed:: Installation Name: ADS-B Out

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	2 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / -
FY 2017	- / -	- / -	- / -	24 / 0.500	- / -	24 / 0.500	- / -	- / -	- / -	- / -	- / -	24 / 0.500
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.500	- / -	- / -	- / -	- / -	24 / 0.500
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.250	- / -	- / -	- / -	4 / 0.250
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / -	24 / 0.500	- / -	24 / 0.500	24 / 0.500	4 / 0.250	- / -	- / -	- / -	54 / 1.250

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	2	6	6	6	6	6	6	6	6	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	54
Out	-	-	-	-	-	-	-	-	2	6	6	6	6	6	6	6	6	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	54

Method of Implementation (Organic): Installation Kits Non-recurring - Not Installed

Installation Quantity: 3

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSCOLESCENCE

Modification Item 2 of 2: Installation Equipment

Manufacturer Information

Manufacturer Name: Digital Engine Gauges	Manufacturer Location: New MFG - Loc
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: Digital Engine Gauges - Depot Level Installed

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	26 / 2.496	28 / 2.356	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	54 / 4.852
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	26 / 2.496	28 / 2.356	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 4.852

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	26	3	3	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
Out	23	3	3	8	8	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54

Method of Implementation (Organic): Install Kits - B kits

Installation Quantity: 54

Footnotes:

(1) Backlog at Depot has resulted in delays in A to C conversion A-Kit installation schedule.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE

(2) FY16-19 includes the addition of the new Automatic Dependent Surveillance-Broadcast Out (ADS-B) capability for the T44. This capability will be required to comply with the FAA mandated Automatic Dependent Surveillance Broadcast (ADS-B Out) hardware. This capability upgrade will be incorporated into the aircraft avionics hardware and software components along with training courseware and hardware. In FY16, 2 kits are VAL/VER kits and procurement includes all costs to include installation. The fluctuation in cost throughout the FYDP is due to expected pricing efficiencies as commercial sources increase production to meet demand.

(3) Updated installation name for modification Item 2 of 2 to breakout A to C conversion and Digital Engine Gauge names. Field Support Team is being utilized to conduct field installation of Digital Engine Gauges to assist with installation backlog at depot where installation is being accomplished in conjunction with Aircraft Condition Inspection.

(4) Requirements added for FY-17 thru FY-19 to provide support for ADS-B Out efforts.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0549 / Trainer Acft Series				Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	34.056	7.148	25.799	8.812	-	8.812	8.700	7.290	3.613	26.634	-	122.052
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	34.056	7.148	25.799	8.812	-	8.812	8.700	7.290	3.613	26.634	-	122.052
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	34.056	7.148	25.799	8.812	-	8.812	8.700	7.290	3.613	26.634	-	122.052
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Description:
The TH-57 is sole platform for the primary and advanced helicopter flight training for United States Navy, United States Marine Corps, United States Coast Guard student aviators and for foreign military pilots. This modernization effort implements the replacement of obsolete avionics and the FAA mandated Automatic Dependent Surveillance Broadcast (ADS-B Out) hardware. ADS-B Out is mandated for implementation no later than 1 January 2020.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY15 provided funding for the VHF radios to address obsolescence & Diminishing Manufacturing Sources and Material Shortages (DMSMS). FY16 funding and beyond provides funding to incorporate required ADS-B Out capability and provides for modifications to address safety, obsolescence, and DMSMS. TACAN and KNS-81 R-Nav, which provide navigation capability, are no longer supported by OEM for procurement. These obsolete components will be replaced in the TH-57 to maintain rotary wing flight training.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0549 / Trainer Acft Series					Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE			
Models of Systems Affected: TH-57B/C				Modification Type: Conversion/Safety					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: OSIP 006-07 TH-57 SAFETY UPGRADE</i>													
A Kits													
Recurring													
1.1.1) ADS-B Out - NonOrganic ⁽⁵⁾	- / -	- / -	10 / 2.200	48 / 3.682	- / -	48 / 3.682	48 / 2.667	16 / 1.717	- / -	- / -	- / -	122 / 10.266	
1.1.2) TACAN + R-NAV Replacement - Organic ⁽⁶⁾	- / -	- / -	- / -	22 / 1.801	- / -	22 / 1.801	34 / 2.909	34 / 2.937	15 / 1.324	17 / 1.525	- / -	122 / 10.496	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 2.200</i>	<i>- / 5.483</i>	<i>- / -</i>	<i>- / 5.483</i>	<i>- / 5.576</i>	<i>- / 4.654</i>	<i>- / 1.324</i>	<i>- / 1.525</i>	<i>- / -</i>	<i>- / 20.762</i>	
Non-Recurring													
1.2.1) Installation Kits Non-recurring - Organic ⁽⁷⁾	4 / 2.656	4 / 0.900	4 / 1.136	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 4.692	
<i>Subtotal: Non-Recurring</i>	<i>- / 2.656</i>	<i>- / 0.900</i>	<i>- / 1.136</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 4.692</i>	
B Kits													
Recurring													
2.1.1) VHF Radios - Organic ⁽⁸⁾	- / -	126 / 2.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	126 / 2.350	
2.1.2) Radar Altimeter Kits - Organic ⁽⁹⁾	82 / 1.710	37 / 0.772	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	119 / 2.482	
2.1.3) Avionics Obsolescence (B kits) - Organic	- / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.336	120 / 23.116	- / -	122 / 23.472	
<i>Subtotal: Recurring</i>	<i>- / 1.730</i>	<i>- / 3.122</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.336</i>	<i>- / 23.116</i>	<i>- / -</i>	<i>- / 28.304</i>	
<i>Subtotal: OSIP 006-07 TH-57 SAFETY UPGRADE</i>	<i>86 / 4.386</i>	<i>167 / 4.022</i>	<i>14 / 3.336</i>	<i>70 / 5.483</i>	<i>- / -</i>	<i>70 / 5.483</i>	<i>82 / 5.576</i>	<i>50 / 4.654</i>	<i>17 / 1.660</i>	<i>137 / 24.641</i>	<i>- / -</i>	<i>623 / 53.758</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 4.386</i>	<i>- / 4.022</i>	<i>- / 3.336</i>	<i>- / 5.483</i>	<i>- / -</i>	<i>- / 5.483</i>	<i>- / 5.576</i>	<i>- / 4.654</i>	<i>- / 1.660</i>	<i>- / 24.641</i>	<i>- / -</i>	<i>- / 53.758</i>	
Support (All Modification Items)													
3.1) DATA - Publications ⁽¹⁰⁾	- / 0.031	- / -	- / -	- / 0.262	- / -	- / 0.262	- / 0.621	- / 0.630	- / -	- / -	- / -	- / 1.544	
3.2) Training Equipment - Trainer OFT ⁽¹¹⁾	- / 10.781	- / 1.398	- / 18.567	- / 0.748	- / -	- / 0.748	- / -	- / -	- / -	- / -	- / -	- / 31.494	
3.4) Other Support ⁽¹²⁾	- / 18.858	- / 1.728	- / 3.802	- / 1.868	- / -	- / 1.868	- / 1.876	- / 1.914	- / 1.953	- / 1.993	- / -	- / 33.992	
<i>Subtotal: Support</i>	<i>- / 29.670</i>	<i>- / 3.126</i>	<i>- / 22.369</i>	<i>- / 2.878</i>	<i>- / -</i>	<i>- / 2.878</i>	<i>- / 2.497</i>	<i>- / 2.544</i>	<i>- / 1.953</i>	<i>- / 1.993</i>	<i>- / -</i>	<i>- / 67.030</i>	
Installation													
<i>Modification Item 1 of 1: OSIP 006-07 TH-57 SAFETY UPGRADE</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.094</i>	<i>- / 0.451</i>	<i>- / -</i>	<i>- / 0.451</i>	<i>- / 0.627</i>	<i>- / 0.092</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.264</i>	
<i>Subtotal: Installation</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.094</i>	<i>- / 0.451</i>	<i>- / -</i>	<i>- / 0.451</i>	<i>- / 0.627</i>	<i>- / 0.092</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1.264</i>	
Total													
Total Cost (Procurement + Support + Installation)	34.056	7.148	25.799	8.812	-	8.812	8.700	7.290	3.613	26.634	-	122.052	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE

Modification Item 1 of 1: OSIP 006-07 TH-57 SAFETY UPGRADE

Manufacturer Information

Manufacturer Name: tbd -A Kits -ADS-B out	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 1

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jun 2016	Oct 2016	Oct 2017	Oct 2018		
Delivery Dates		Jul 2016	Nov 2016	Nov 2017	Nov 2018		

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ADS-B Out

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	10 / 0.094	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.094
FY 2017	- / -	- / -	- / -	48 / 0.451	- / -	48 / 0.451	- / -	- / -	- / -	- / -	- / -	48 / 0.451
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.627	- / -	- / -	- / -	- / -	48 / 0.627
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.092	- / -	- / -	- / -	16 / 0.092
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	10 / 0.094	48 / 0.451	- / -	48 / 0.451	48 / 0.627	16 / 0.092	- / -	- / -	- / -	122 / 1.264

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	10	12	12	12	12	12	12	12	12	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	122
Out	-	-	-	-	-	-	-	-	10	12	12	12	12	12	12	12	12	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	122

Method of Implementation (Organic): TACAN + R-NAV Replacement **Installation Quantity:** 122

Method of Implementation (Organic): Installation Kits Non-recurring **Installation Quantity:** 12

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE

Modification Item 1 of 1: OSIP 006-07 TH-57 SAFETY UPGRADE

Installation Information

Method of Implementation (Organic): VHF Radios	Installation Quantity: 126
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Method of Implementation (Organic): Radar Altimeter Kits	Installation Quantity: 119
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Method of Implementation (Organic): Avionics Obsolescence (B kits)	Installation Quantity: 122
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Footnotes:

- (5) Line was updated to combine non-organic and organic installs in prior exhibits to non-organic. FY16 Low Rate Initial Production (LRIP) kits qty (10) are higher cost per unit. The fluctuation in cost throughout the FYDP is due to different quantities of lot purchase and expected pricing efficiencies as commercial sources increase production to meet commercial demand.
- (6) In FY17 and out, kits will be installed to replace obsolete avionics.
- (7) Prior years (FY13) Radar Altimeter 4 VAL/VER kits - CLS installed. FY16 ADS-B Out 4 VAL/VER Kits - O level CLS Installed. VHF Radio and ADS-B Out VAL/VER installation will be done concurrently.
- (8) VHF Radio cost now include installation.
- (9) All kits will now be O-level installed.
- (10) In FY17, data pubs will be updated as part of ADS-B Out modification to comply with FAA NextGen requirements. FY17 amounts reduced for NWCF Carry-over growth and in support of higher priority Navy funding requirements.
- (11) FY17 Navy submission reflects shift in acquisition strategy for simulator obsolescence from procurement to services contract. FY17 training requirement reflects shift in acquisition strategy for simulator obsolescence from procurement to services contract. FY16 & FY17 training requirements will incorporate modifications to existing trainers to align with aircraft configuration and planned TH-57 aircraft modifications such as RAD/ALT, VHF, and ADS-B.
- (12) Decrease in FY17 other support requirement is result of shift in acquisition strategy for simulator obsolescence.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 3 / Inactive OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	51.174	-	-	-	-	-	-	-	-	-	-	51.174
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	51.174	-	-	-	-	-	-	-	-	-	-	51.174
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	51.174	-	-	-	-	-	-	-	-	-	-	51.174
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0549 / Trainer Acft Series					Modification Number / Title: 3 / Inactive OSIPs			
Models of Systems Affected: [No Model Specified]					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Inactive OSIPs													
A Kits													
Recurring													
1.1.1) Inactive OSIPs - Organic	- / 51.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.174	
<i>Subtotal: Recurring</i>	- / 51.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.174	
<i>Subtotal: Inactive OSIPs</i>	- / 51.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.174	
<i>Subtotal: Procurement, All Modification Items</i>	- / 51.174	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.174	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	51.174	-	-	-	-	-	-	-	-	-	-	51.174	

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0556 / C-2A
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	457.132	-	7.157	19.066	-	19.066	22.694	19.655	17.952	7.890	7.241	558.787
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	457.132	-	7.157	19.066	-	19.066	22.694	19.655	17.952	7.890	7.241	558.787
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	457.132	-	7.157	19.066	-	19.066	22.694	19.655	17.952	7.890	7.241	558.787

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in C2-A by \$0.805M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

The C-2A(R) Greyhound is a high wing monoplane, twin engine turbo-prop aircraft capable of operating from both a shore base and all operational United States Navy aircraft carrier classes. The mission of the C-2A(R) is to provide rapid response Carrier Onboard Delivery of fleet essential supplies, repair parts, and personnel to sustain at sea operations of deployed battle groups. In addition, the C-2A(R) provides airdrop delivery and mobilization support for special operations forces from land bases and carriers. The design service life of the C-2A(R) was 10,000 flight hours with 15,000 landings. Service Life Extension Program (SLEP) modifications increased the service life to 15,000 flight hours and 36,000 landings and install various upgrades to allow C-2A(R) to meet requirements into the next decade. The goal of the Critical Components Operational Safety Improvement Program (11-07) is to continue procurement efforts for the multiple modifications. Critical Components are composed of Communication Avionics and Radio Upgrades, Engine Power & Propulsion, Ejector valve, and Transducer Engineering Change Proposals. The C-2 Critical Brake Upgrade Operational Safety Improvement Program (04-16) provides funding for air vehicle modifications to improve operational ground controllability of C-2A aircraft. The Structural Modification program (14-17) is to specifically target improvement to structural integrity. These improvements are a vital requirement for C-2 to maintain the aircraft in the Fleet. The modification to the wing center section is to prevent structural cracks due to fatigue. There is a total number of 35 C-2A aircraft.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0556 / C-2A

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 011-07 Critical Components (Mission Performance Enhancements)			- / 13.196	- / -	- / 3.579	- / 7.363	- / -	- / 7.363
P-3a	2 / 004-16 C-2 Critical Brake Upgrade (Mission Performance Enhancements)			- / 0.000	- / -	- / 3.578	- / 3.589	- / -	- / 3.589
P-3a	3 / 014-17 Structural Enhancements (Mission Performance Enhancements)			- / 0.000	- / -	- / -	- / 8.114	- / -	- / 8.114
P-3a	4 / Inactive OSIPS (TBD)			- / 443.936	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 457.132	- / -	- / 7.157	- / 19.066	- / -	- / 19.066

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 011-07 Critical Components (Mission Performance Enhancements)			- / 6.710	- / 3.612	- / 3.302	- / 1.573	- / -	- / 39.335
P-3a	2 / 004-16 C-2 Critical Brake Upgrade (Mission Performance Enhancements)			- / 4.439	- / 4.473	- / 4.530	- / 2.895	- / 2.219	- / 25.723
P-3a	3 / 014-17 Structural Enhancements (Mission Performance Enhancements)			- / 11.545	- / 11.570	- / 10.120	- / 3.422	- / 5.022	- / 49.793
P-3a	4 / Inactive OSIPS (TBD)			- / -	- / -	- / -	- / -	- / -	- / 443.936
P-40	Total Gross/Weapon System Cost			- / 22.694	- / 19.655	- / 17.952	- / 7.890	- / 7.241	- / 558.787

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The Critical Components program will continue through the service life of the airframe. The the C-2 Critical Brake Upgrade Operational Safety Improvement Program began in FY16. The Structural Enhancements modification begins in FY17.

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 1 / 011-07 Critical Components
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	13.196	-	3.579	7.363	-	7.363	6.710	3.612	3.302	1.573	-	39.335
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	13.196	-	3.579	7.363	-	7.363	6.710	3.612	3.302	1.573	-	39.335
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	13.196	-	3.579	7.363	-	7.363	6.710	3.612	3.302	1.573	-	39.335

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-2A(R) Service Life Extension Program (SLEP) extended the Navy's Carrier Onboard Delivery capability beyond current projected service life. With a longer air vehicle life, problems with other non-SLEP systems require upgrade/modifications. This Operational Safety and Improvement Program procures a portion of the Critical Components communication avionics, radios, transducers, ejector valves, power and propulsion subsystems.

Basis for FY17 request is to procure the ARC-210, Ejector Valve, Transducer, Intercommunication Set (ICS) components and it's associated program support.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0556 / C-2A					Modification Number / Title: 1 / 011-07 Critical Components			
Models of Systems Affected: C-2A(R) Aircraft				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 011-07 Critical Components													
A Kits													
Recurring													
1.1.1) Ejector Valve - Organic ⁽¹⁾	- / -	- / -	- / -	26 / 1.768	- / -	26 / 1.768	26 / 1.768	13 / 0.884	17 / 1.156	14 / 0.952	- / -	96 / 6.528	
1.1.2) Transducer - Organic	- / -	- / -	36 / 0.900	3 / 0.067	- / -	3 / 0.067	- / -	- / -	- / -	- / -	- / -	39 / 0.967	
1.1.3) ICS - Organic	- / -	- / -	40 / 0.989	100 / 2.545	- / -	100 / 2.545	- / -	- / -	- / -	- / -	- / -	140 / 3.534	
1.1.4) ARC-210 - NonOrganic	- / -	- / -	- / -	3 / 0.540	- / -	3 / 0.540	15 / 2.700	10 / 1.800	7 / 1.260	- / -	- / -	35 / 6.300	
1.1.5) ARCHIVE Modification - Organic	- / 4.816	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.816	
Subtotal: Recurring	- / 4.816	- / -	- / 1.889	- / 4.920	- / -	- / 4.920	- / 4.468	- / 2.684	- / 2.416	- / 0.952	- / -	- / 22.145	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	8 / 1.637	- / -	- / 0.597	- / 0.219	- / -	- / 0.219	- / 0.154	- / -	- / -	- / -	- / -	8 / 2.607	
Subtotal: Non-Recurring	- / 1.637	- / -	- / 0.597	- / 0.219	- / -	- / 0.219	- / 0.154	- / -	- / -	- / -	- / -	- / 2.607	
B Kits													
Recurring													
2.1.1) Installation Equipment - Organic	- / 0.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.470	
Subtotal: Recurring	- / 0.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.470	
Subtotal: 011-07 Critical Components	8 / 6.923	- / -	76 / 2.486	132 / 5.139	- / -	132 / 5.139	41 / 4.622	23 / 2.684	24 / 2.416	14 / 0.952	- / -	318 / 25.222	
Subtotal: Procurement, All Modification Items	- / 6.923	- / -	- / 2.486	- / 5.139	- / -	- / 5.139	- / 4.622	- / 2.684	- / 2.416	- / 0.952	- / -	- / 25.222	
Support (All Modification Items)													
3.1) Data ⁽²⁾	- / 0.370	- / -	- / 0.139	- / 0.295	- / -	- / 0.295	- / 0.070	- / -	- / -	- / -	- / -	- / 0.874	
3.3) Training Equipment ⁽³⁾	- / 0.013	- / -	- / 0.150	- / 0.243	- / -	- / 0.243	- / -	- / -	- / -	- / -	- / -	- / 0.406	
3.4) Support Equipment	- / 0.007	- / -	- / -	- / 0.075	- / -	- / 0.075	- / 0.400	- / -	- / -	- / -	- / -	- / 0.482	
3.5) ILS ⁽⁴⁾	- / 0.071	- / -	- / 0.439	- / 0.790	- / -	- / 0.790	- / 0.628	- / 0.446	- / 0.426	- / 0.393	- / -	- / 3.193	
3.6) Other Support ⁽⁵⁾	- / 5.812	- / -	- / 0.365	- / 0.821	- / -	- / 0.821	- / 0.972	- / 0.391	- / 0.399	- / 0.185	- / -	- / 8.945	
Subtotal: Support	- / 6.273	- / -	- / 1.093	- / 2.224	- / -	- / 2.224	- / 2.070	- / 0.837	- / 0.825	- / 0.578	- / -	- / 13.900	
Installation													
Modification Item 1 of 1: 011-07 Critical Components	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.018	- / 0.091	- / 0.061	- / 0.043	- / -	- / 0.213	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.018	- / 0.091	- / 0.061	- / 0.043	- / -	- / 0.213	
Total													

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0556 / C-2A						Modification Number / Title: 1 / 011-07 Critical Components		
Models of Systems Affected: C-2A(R) Aircraft				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total Cost (Procurement + Support + Installation)	13.196	-	3.579	7.363	-	7.363	6.710	3.612	3.302	1.573	-	39.335

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 1 / 011-07 Critical Components

Modification Item 1 of 1: 011-07 Critical Components

Manufacturer Information

Manufacturer Name: Rockwell Collins - ARC-210	Manufacturer Location: New MFG - Loc
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 8

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates			Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: ARC-210

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.018	- / -	- / -	- / -	- / -	3 / 0.018
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.091	- / -	- / -	- / -	15 / 0.091
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.061	- / -	- / -	10 / 0.061
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.043	- / -	7 / 0.043
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.018	15 / 0.091	10 / 0.061	7 / 0.043	- / -	35 / 0.213

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	5	5	5	-	5	5	-	-	2	2	2	1	-	35
Out	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	5	5	5	-	5	5	-	-	2	2	2	1	-	35

Method of Implementation (Organic): Ejector Valve **Installation Quantity:** 96

Method of Implementation (Organic): Transducer **Installation Quantity:** 39

Method of Implementation (Organic): ICS **Installation Quantity:** 140

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 1 / 011-07 Critical Components
Modification Item 1 of 1: 011-07 Critical Components		
Installation Information		
Method of Implementation (Organic): Installation Kits N/R - Not Installed		Installation Quantity: 8

Footnotes:

- (1) Ejector Valve A kit procurement drops in FY19 due to funding restraints.
- (2) Multiple ECP's are starting within the Critical Components program, so funding cannot be analyzed at a level inflation rate.
- (3) Multiple ECP's are starting within the Critical Components program, so funding cannot be analyzed at a level inflation rate.
- (4) Multiple ECP's are starting within the Critical Components program, so funding cannot be analyzed at a level inflation rate.
- (5) Multiple ECP's are starting within the Critical Components program, so funding cannot be analyzed at a level inflation rate.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 2 / 004-16 C-2 Critical Brake Upgrade
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	3.578	3.589	-	3.589	4.439	4.473	4.530	2.895	2.219	25.723
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	-	3.578	3.589	-	3.589	4.439	4.473	4.530	2.895	2.219	25.723
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	3.578	3.589	-	3.589	4.439	4.473	4.530	2.895	2.219	25.723

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-2A(R) Greyhound Critical Brake Upgrade adds an Anti-Skid Brake System (ABS) to the aircraft which helps mitigate directional stability safety issues by enhancing ground controllability for land based runway conditions.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Preliminary Design Review completed 3RD QTR of FY13. Critical Design Review completed 4TH QTR of FY13. Flight Testing began 2ND QTR of FY15.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0556 / C-2A					Modification Number / Title: 2 / 004-16 C-2 Critical Brake Upgrade			
Models of Systems Affected: C-2A(R) Aircraft				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 004-16 C-2 Critical Brake Upgrade													
A Kits													
Recurring													
1.1.1) Critical Brakes - NonOrganic ⁽⁶⁾	- / -	- / -	6 / 1.005	5 / 0.765	- / -	5 / 0.765	7 / 1.092	7 / 1.117	7 / 1.137	2 / 0.331	1 / 0.166	35 / 5.613	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 1.005	- / 0.765	- / -	- / 0.765	- / 1.092	- / 1.117	- / 1.137	- / 0.331	- / 0.166	- / 5.613	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / -	- / -	- / 0.203	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.203	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / 0.203	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.203	
<i>Subtotal: 004-16 C-2 Critical Brake Upgrade</i>	- / -	- / -	6 / 1.208	5 / 0.765	- / -	5 / 0.765	7 / 1.092	7 / 1.117	7 / 1.137	2 / 0.331	1 / 0.166	35 / 5.816	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 1.208	- / 0.765	- / -	- / 0.765	- / 1.092	- / 1.117	- / 1.137	- / 0.331	- / 0.166	- / 5.816	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	
3.2) ILS	- / -	- / -	- / 0.300	- / 0.316	- / -	- / 0.316	- / 0.374	- / 0.375	- / 0.427	- / 0.167	- / 0.011	- / 1.970	
3.3) Training Equipment	- / -	- / -	- / -	- / 0.425	- / -	- / 0.425	- / 0.050	- / -	- / -	- / -	- / -	- / 0.475	
3.4) Support Equipment ⁽⁷⁾	- / -	- / -	- / 0.568	- / 0.079	- / -	- / 0.079	- / 0.211	- / -	- / -	- / -	- / -	- / 0.858	
3.5) Other Support	- / -	- / -	- / 1.002	- / 1.004	- / -	- / 1.004	- / 1.182	- / 1.160	- / 1.109	- / 0.502	- / 0.490	- / 6.449	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 2.370	- / 1.824	- / -	- / 1.824	- / 1.817	- / 1.535	- / 1.536	- / 0.669	- / 0.501	- / 10.252	
Installation													
<i>Modification Item 1 of 1:</i> 004-16 C-2 Critical Brake Upgrade	- / 0.000	- / -	- / -	- / 1.000	- / -	- / 1.000	- / 1.530	- / 1.821	- / 1.857	- / 1.895	- / 1.552	- / 9.655	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 1.000	- / -	- / 1.000	- / 1.530	- / 1.821	- / 1.857	- / 1.895	- / 1.552	- / 9.655	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	3.578	3.589	-	3.589	4.439	4.473	4.530	2.895	2.219	25.723	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 2 / 004-16 C-2 Critical Brake Upgrade

Modification Item 1 of 1: 004-16 C-2 Critical Brake Upgrade

Manufacturer Information

Manufacturer Name: Critical Brake Upgrade	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates		Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Critical Brake Upgrade

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	6 / 1.000	- / -	6 / 1.000	- / -	- / -	- / -	- / -	- / -	6 / 1.000
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.530	- / -	- / -	- / -	- / -	5 / 1.530
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.821	- / -	- / -	- / -	7 / 1.821
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.857	- / -	- / -	7 / 1.857
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.895	- / -	7 / 1.895
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.552	2 / 0.552
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.000	1 / 1.000
Total	- / -	- / -	- / -	6 / 1.000	- / -	6 / 1.000	5 / 1.530	7 / 1.821	7 / 1.857	7 / 1.895	3 / 1.552	35 / 9.655

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	1	-	2	2	2	1	2	2	2	1	2	2	2	1	3	35
Out	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	1	-	2	2	2	1	2	2	2	1	2	2	2	1	3	35

Footnotes:

- (6) Quantities shifted due to availability of aircraft. FY17 decrease is due to budget reductions.
- (7) FY18 Support Equipment increase from FY17 is due to additional tooling needed to support Critical Brakes.

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 3 / 014-17 Structural Enhancements
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	8.114	-	8.114	11.545	11.570	10.120	3.422	5.022	49.793
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	8.114	-	8.114	11.545	11.570	10.120	3.422	5.022	49.793
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	8.114	-	8.114	11.545	11.570	10.120	3.422	5.022	49.793

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The structural modifications to the C-2 series aircraft specifically target improvement to structural integrity and support costs. These improvements are a vital requirement for C-2 to maintain the aircraft in the Fleet until the planned sundown. The modification is to the wing center section to prevent structural cracks due to fatigue. This effort will take the C-2 Fleet to full service life.

This is an FY17 new start.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Modifications to the C-2 wing center section will begin in FY17.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0556 / C-2A					Modification Number / Title: 3 / 014-17 Structural Enhancements			
Models of Systems Affected: C-2A				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: 014-17 Structural Enhancements</i>													
A Kits													
Recurring													
1.1.1) Wing Center Section - NonOrganic	- / -	- / -	- / -	6 / 1.334	- / -	6 / 1.334	8 / 1.814	8 / 1.851	7 / 1.652	2 / 0.481	4 / 0.982	35 / 8.114	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 1.334	- / -	- / 1.334	- / 1.814	- / 1.851	- / 1.652	- / 0.481	- / 0.982	- / 8.114	
<i>Subtotal: 014-17 Structural Enhancements</i>	- / -	- / -	- / -	6 / 1.334	- / -	6 / 1.334	8 / 1.814	8 / 1.851	7 / 1.652	2 / 0.481	4 / 0.982	35 / 8.114	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 1.334	- / -	- / 1.334	- / 1.814	- / 1.851	- / 1.652	- / 0.481	- / 0.982	- / 8.114	
Support (All Modification Items)													
3.1) Data	- / -	- / -	- / -	- / 0.225	- / -	- / 0.225	- / 0.206	- / -	- / -	- / -	- / -	- / 0.431	
3.2) ILS	- / -	- / -	- / -	- / 0.488	- / -	- / 0.488	- / 0.968	- / 0.922	- / 0.509	- / 0.215	- / 0.151	- / 3.253	
3.3) Support Equipment	- / -	- / -	- / -	- / 0.220	- / -	- / 0.220	- / 0.206	- / 0.148	- / -	- / -	- / -	- / 0.574	
3.4) Other Support ^(B)	- / -	- / -	- / -	- / 2.001	- / -	- / 2.001	- / 3.120	- / 3.313	- / 3.197	- / 1.338	- / 1.058	- / 14.027	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 2.934	- / -	- / 2.934	- / 4.500	- / 4.383	- / 3.706	- / 1.553	- / 1.209	- / 18.285	
Installation													
<i>Modification Item 1 of 1: 014-17 Structural Enhancements</i>	- / 0.000	- / -	- / -	- / 3.846	- / -	- / 3.846	- / 5.231	- / 5.336	- / 4.762	- / 1.388	- / 2.831	- / 23.394	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 3.846	- / -	- / 3.846	- / 5.231	- / 5.336	- / 4.762	- / 1.388	- / 2.831	- / 23.394	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	8.114	-	8.114	11.545	11.570	10.120	3.422	5.022	49.793	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 3 / 014-17 Structural Enhancements

Modification Item 1 of 1: 014-17 Structural Enhancements

Manufacturer Information

Manufacturer Name: Wing Center Section ⁽⁹⁾				Manufacturer Location: Field Mod Team			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates			Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Wing Center Section

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	6 / 3.846	- / -	6 / 3.846	- / -	- / -	- / -	- / -	- / -	6 / 3.846
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	8 / 5.231	- / -	- / -	- / -	- / -	8 / 5.231
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 5.336	- / -	- / -	- / -	8 / 5.336
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 4.762	- / -	- / -	7 / 4.762
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.388	- / -	2 / 1.388
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.831	4 / 2.831
Total	- / -	- / -	- / -	6 / 3.846	- / -	6 / 3.846	8 / 5.231	8 / 5.336	7 / 4.762	2 / 1.388	4 / 2.831	35 / 23.394

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	3	3	-	-	4	4	-	-	4	4	-	-	4	3	-	-	1	1	4	35
Out	-	-	-	-	-	-	-	-	-	-	-	3	3	-	-	4	4	-	-	4	4	-	-	4	3	-	-	1	1	4	35

Footnotes:

⁽⁸⁾ FY18 increase is due to decrease applied in FY17 for Working Capital Fund Carryover.

⁽⁹⁾ One team for each coast will be set up to modify at least one aircraft a month.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 4 / Inactive OSIPS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	443.936	-	-	-	-	-	-	-	-	-	-	443.936
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	443.936	-	-	-	-	-	-	-	-	-	-	443.936
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	443.936	-	-	-	-	-	-	-	-	-	-	443.936
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0556 / C-2A					Modification Number / Title: 4 / Inactive OSIPS			
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: N/A</i>													
<i>Subtotal: N/A</i>													
<i>Subtotal: Procurement, All Modification Items</i>													
Support (All Modification Items)													
<i>3.1) Inactive OSIPs</i>													
<i>Subtotal: Support</i>													
Installation													
<i>Subtotal: Installation</i>													
Total													
Total Cost (Procurement + Support + Installation)													

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0556 / C-2A		Modification Number / Title: 4 / Inactive OSIPS		
<i>Modification Item 1 of 1:</i> N/A							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Support Only Installation					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0560 / C-130 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 433	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	494.604	39.339	65.935	61.788	-	61.788	70.143	87.308	93.618	106.492	515.782	1,535.009
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	494.604	39.339	65.935	61.788	-	61.788	70.143	87.308	93.618	106.492	515.782	1,535.009
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	494.604	39.339	65.935	61.788	-	61.788	70.143	87.308	93.618	106.492	515.782	1,535.009

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in C-130 SERIES by \$0.826M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

The FY 2017 funding request was reduced by \$2.269M to account for the availability of prior year execution balances.

DESCRIPTION: This item funds modifications to C/KC-130 aircraft. The Lockheed C/KC-130 aircraft is a four engine, high-wing, all metal, long range, land based monoplane capable of all weather transport of cargo or personnel and in-flight refueling. There are currently 94 aircraft in the Navy and Marine Corps inventory (48 active and 46 reserve). The expected Service Life is as follows:

T/M/S	Service Date	Service Life	Expected Life
C-130T	10/91 - 11/95	450 mos.	2028-2032
KC-130T	04/84 - 02/96	450 mos.	2021-2033
KC-130J	09/00 - 10/26	450 mos.	2037-2063

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Navy	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	20.558	44.980	43.084	-	43.084	54.524	69.962	76.158	87.462
NR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	18.781	20.955	18.704	-	18.704	15.619	17.346	17.460	19.030
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	39.339	65.935	61.788	-	61.788	70.143	87.308	93.618	106.492

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0560 / C-130 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 433 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07) (Performance Enhancement)			- / 155.319	- / 13.999	- / 6.898	- / 14.383	- / -	- / 14.383
P-3a	2 / Avionics /Obsolescence Upgrades (OSIP 008-12) (Safety / Readiness)			- / 47.466	- / 18.781	- / 20.955	- / 18.704	- / -	- / 18.704
P-3a	3 / Electronic Counter Measures (OSIP 020-12) (Safety)			- / 53.113	- / 3.150	- / 17.037	- / 5.949	- / -	- / 5.949
P-3a	4 / Hose Reel Reliability Improvements (OSIP 007-13) (Reliability / Safety)			- / 2.025	- / 0.964	- / -	- / -	- / -	- / -
P-3a	5 / Technical Insertion (OSIP 019-14) (Capability)			- / 0.000	- / 2.445	- / 21.045	- / 20.134	- / -	- / 20.134
P-3a	6 / Safety/Obsolescence Upgrades (OSIP 015-17) (Safety / Reliability / Obsolescence)			- / 0.000	- / -	- / -	- / 2.618	- / -	- / 2.618
P-3a	7 / Inactive OSIPs (TBD)			- / 236.681	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 494.604	- / 39.339	- / 65.935	- / 61.788	- / -	- / 61.788

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07) (Performance Enhancement)			- / 5.980	- / 8.020	- / 9.469	- / 9.513	- / 219.822	- / 443.403
P-3a	2 / Avionics /Obsolescence Upgrades (OSIP 008-12) (Safety / Readiness)			- / 15.619	- / 17.346	- / 17.460	- / 19.030	- / 93.684	- / 269.045
P-3a	3 / Electronic Counter Measures (OSIP 020-12) (Safety)			- / 3.400	- / 8.616	- / 15.217	- / 9.343	- / 58.098	- / 173.923
P-3a	4 / Hose Reel Reliability Improvements (OSIP 007-13) (Reliability / Safety)			- / -	- / -	- / -	- / -	- / -	- / 2.989
P-3a	5 / Technical Insertion (OSIP 019-14) (Capability)			- / 41.778	- / 53.326	- / 51.472	- / 68.606	- / 134.297	- / 393.103
P-3a	6 / Safety/Obsolescence Upgrades (OSIP 015-17) (Safety / Reliability / Obsolescence)			- / 3.366	- / -	- / -	- / -	- / 9.881	- / 15.865
P-3a	7 / Inactive OSIPs (TBD)			- / -	- / -	- / -	- / -	- / -	- / 236.681
P-40	Total Gross/Weapon System Cost			- / 70.143	- / 87.308	- / 93.618	- / 106.492	- / 515.782	- / 1,535.009

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

Basis for FY2017 Budget request: Provides funding to procure aircraft modifications for the C/KC-130 program.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series				Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	155.319	13.999	6.898	14.383	-	14.383	5.980	8.020	9.469	9.513	219.822	443.403
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	155.319	13.999	6.898	14.383	-	14.383	5.980	8.020	9.469	9.513	219.822	443.403
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	155.319	13.999	6.898	14.383	-	14.383	5.980	8.020	9.469	9.513	219.822	443.403
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The KC-130 provides air-to-air refueling, rapid ground refueling, tactical troop transport, aerial delivery of personnel and cargo, airborne radio relay, tactical aero-medical evacuation, intelligence, surveillance, and reconnaissance (ISR), and Close Air Support (CAS). The objective of this effort is to integrate an Intelligence, Surveillance & Reconnaissance (ISR) Weapon System Kit into the KC-130J aircraft which provides an armed capability to provide intra-theatre suppressive fire support for ground troops as well as intelligence and reconnaissance capability for theatre commanders. KC-130Js have been continuously deployed in support of world-wide combat operations providing multi-mission, tactical aerial refueling, and fixed-wing assault support. This added capability will provide the Marine Air-Ground Task Force Commander increased capability for real time intelligence gathering and an armed capability for targets of opportunity and suppressive fire-support. The ISR/Weapon System Kit will consist of a ISR pod, wing mounted air-to-ground missiles and air-to-ground precision guided munitions. The system will be configured as a Roll-On/Roll-Off capability to allow for rapid deployment. The program will leverage off of current technology/fielded systems to provide rapid integration of this new capability. Future capabilities will include video datalink connectivity, satellite communications, Hellfire P4/N4 compatibility, recovery of external fuel stores, recovery of dual Air-to-Air refueling systems, correction of human factors issues, Joint Air to Ground Munitions (JAGM), and small diameter bombs and will address obsolescence, test platform, and capability gaps.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The KC-130J ISR/Weapons Mission Kit configuration provides Intelligence, Surveillance & Reconnaissance (ISR) Weapon System Capability and Close Air Support capability through both wing mounted munitions and cargo door mounted Standoff Precision Guided Munitions. The 6 baseline ISR/Weapons Mission Kits and 10 baseline aircraft modifications completed production in FY14. This OSIP provides funding to address obsolescence issues [update Battle Management System (BMS) for Hellfire P4/N4 variant missiles], human factors issues, and fleet capability gaps (recover external fuel stores, recover dual Air-to-Air refueling systems, tactical datalink gap, and communications gap). A-Kits and B-Kits in FY16-FY19 address fleet capability gaps.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)			
Models of Systems Affected: C/KC-130T/J				Modification Type: Performance Enhancement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)													
A Kits													
Recurring													
1.1.1) Harvest Hawk Plus A Kit - NonOrganic	- / -	- / -	- / -	4 / 0.979	- / -	4 / 0.979	2 / 0.500	- / -	- / -	- / -	4 / 1.100	10 / 2.579	
1.1.2) HH+ Antenna - Organic	- / -	5 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 3.092	10 / 5.092	
1.1.3) HH+ VDL A Kit - NonOrganic ⁽¹⁾	- / -	9 / 3.375	1 / 0.375	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 3.750	
1.1.4) BLOS A Kit - NonOrganic ⁽²⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.274	2 / 0.140	2 / 0.142	2 / 0.145	10 / 0.701	
1.1.5) HH+ Radome A Kit - Organic	- / -	- / -	- / -	4 / 0.125	- / -	4 / 0.125	2 / 0.064	- / -	- / -	- / -	4 / 0.200	10 / 0.389	
1.1.6) 30MM Gun - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.768	10 / 1.768	
1.1.7) Weapon @ OWS430 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 117.874	10 / 117.874	
1.1.8) Archive - Organic ⁽³⁾	- / 25.684	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.684	
Subtotal: Recurring	- / 25.684	- / 5.375	- / 0.375	- / 1.104	- / -	- / 1.104	- / 0.564	- / 0.274	- / 0.140	- / 0.142	- / 124.179	- / 157.837	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / -	- / 1.998	- / 0.772	- / -	- / -	- / -	- / -	- / 0.156	- / -	- / -	- / -	- / 12.926	
Subtotal: Non-Recurring	- / 0.000	- / 1.998	- / 0.772	- / -	- / -	- / -	- / -	- / 0.156	- / -	- / -	- / -	- / 12.926	
B Kits													
Recurring													
2.1.1) BLOS B Kit - Organic ⁽⁴⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.091	2 / 1.577	2 / 1.608	2 / 1.643	10 / 7.919	
2.1.2) JAGM B Kit - NonOrganic ⁽⁵⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.094	5 / 0.478	- / -	6 / 0.572	
2.1.3) 30mm Gun - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 58.937	10 / 58.937	
2.1.4) Weapons @ OWS430 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.122	10 / 2.122	
2.1.5) GFE - Organic	- / -	- / 0.782	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.782	
2.1.6) Archive - Organic ⁽⁶⁾	- / 191.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 191.480	
Subtotal: Recurring	- / 191.480	- / 0.782	- / -	- / -	- / -	- / -	- / -	- / 3.091	- / 1.671	- / 2.086	- / 62.702	- / 161.812	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 17.514	- / 2.773	- / 0.288	- / -	- / -	- / -	- / -	- / -	- / 0.250	- / -	- / 0.924	- / 21.749	
2.2.2) JAGM Testing - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.714	- / 1.697	- / 4.110	- / 8.521	
2.2.3) HH+ Testing - Organic	- / -	- / -	- / -	- / 0.450	- / -	- / 0.450	- / -	- / -	- / -	- / -	- / -	- / 0.450	
2.2.4) VX-20 Testing - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.000	- / 3.000	
2.2.5) 30mm Gun - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.892	- / 6.892	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)				
Models of Systems Affected: C/KC-130T/J				Modification Type: Performance Enhancement				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total		
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>		
2.2.6) Weapons @ OWS430 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.595	- / 14.595		
<i>Subtotal: Non-Recurring</i>	- / 17.514	- / 2.773	- / 0.288	- / 0.450	- / -	- / 0.450	- / -	- / -	- / 2.964	- / 1.697	- / 19.521	- / 45.207		
<i>Subtotal: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)</i>	- / 134.678	14 / 10.928	1 / 1.435	8 / 1.554	- / -	8 / 1.554	4 / 0.564	8 / 3.521	5 / 4.775	9 / 3.925	57 / 206.402	106 / 367.782		
<i>Subtotal: Procurement, All Modification Items</i>	- / 134.678	- / 10.928	- / 1.435	- / 1.554	- / -	- / 1.554	- / 0.564	- / 3.521	- / 4.775	- / 3.925	- / 206.402	- / 367.782		
Support (All Modification Items)														
3.2) Data	- / 0.639	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.062	- / 0.065	- / 0.150	- / 0.215	- / 1.131		
3.3) Training Equipment	- / 1.049	- / 0.618	- / 0.607	- / 7.900	- / -	- / 7.900	- / 0.827	- / -	- / 0.175	- / 0.085	- / -	- / 11.261		
3.4) Support Equipment	- / 2.309	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.309		
3.5) ILS ⁽⁷⁾	- / 2.327	- / 0.855	- / 0.709	- / 0.902	- / -	- / 0.902	- / 0.915	- / 0.942	- / 0.971	- / 0.991	- / 14.195	- / 12.807		
3.6) Other Support ⁽⁸⁾	- / 9.130	- / 1.598	- / 0.991	- / 1.254	- / -	- / 1.254	- / 1.275	- / 1.754	- / 1.805	- / 1.843	- / 17.758	- / 27.408		
3.7) Interim Contractor Support ⁽⁹⁾	- / 5.187	- / -	- / 0.350	- / 1.232	- / -	- / 1.232	- / 1.613	- / 1.454	- / 1.332	- / 1.340	- / -	- / 12.508		
<i>Subtotal: Support</i>	- / 20.641	- / 3.071	- / 2.657	- / 11.288	- / -	- / 11.288	- / 4.630	- / 4.212	- / 4.348	- / 4.409	- / 12.168	- / 67.424		
Installation														
<i>Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)</i>	- / 0.000	- / -	- / 2.806	- / 1.541	- / -	- / 1.541	- / 0.786	- / 0.287	- / 0.346	- / 1.179	- / 1.252	- / 8.197		
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 2.806	- / 1.541	- / -	- / 1.541	- / 0.786	- / 0.287	- / 0.346	- / 1.179	- / 1.252	- / 8.197		
Total														
Total Cost (Procurement + Support + Installation)	155.319	13.999	6.898	14.383	-	14.383	5.980	8.020	9.469	9.513	219.822	443.403		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Manufacturer Information

Manufacturer Name: JF Taylor - Harvest Hawk Manufacturer Location: Patuxent River MD

Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017	Jan 2018			
Delivery Dates			May 2017	May 2018			

Manufacturer Name: TBD - BLOS Manufacturer Location: TBD

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Dec 2018	Dec 2019	Dec 2020
Delivery Dates					May 2019	May 2020	May 2021

Manufacturer Name: Sierra Nevada - VDL Manufacturer Location: Patuxent River MD

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 11

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Oct 2015					
Delivery Dates	Dec 2015	Aug 2016					

Manufacturer Name: TBD JAGM Manufacturer Location: TBD

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						Dec 2019	Dec 2020
Delivery Dates						May 2020	May 2021

Installation Information

Method of Implementation: [none specified]:: Installation Name: Harvest Hawk Plus A Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	4 / 1.541	- / -	4 / 1.541	- / -	- / -	- / -	- / -	- / -	4 / 1.541
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.786	- / -	- / -	- / -	- / -	2 / 0.786

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Harvest Hawk Plus A Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.100	4 / 1.100
Total	- / -	- / -	- / -	4 / 1.541	- / -	4 / 1.541	2 / 0.786	- / -	- / -	- / -	4 / 1.100	10 / 3.427

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	4	10
Out	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	4	10

Method of Implementation: Depot Field Mod Team:: Installation Name: HH+ VDL A Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	9 / 2.525	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.525
FY 2016	- / -	- / -	1 / 0.281	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.281
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	10 / 2.806	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.806

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: HH+ VDL A Kit

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	2	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	-	-	-	-	-	-	2	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10

Method of Implementation: [none specified]:: Installation Name: BLOS A Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.287	- / -	- / -	- / -	4 / 0.287
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.146	- / -	- / -	2 / 0.146
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.149	- / -	2 / 0.149
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.152	2 / 0.152
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.287	2 / 0.146	2 / 0.149	2 / 0.152	10 / 0.734

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	2	-	-	-	2	-	2	2	10
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	2	-	-	-	2	2	2	10

Method of Implementation: [none specified]:: Installation Name: JAGM B Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Installation Information

Method of Implementation: [none specified]:: Installation Name: JAGM B Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.200	- / -	- / -	1 / 0.200
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.030	- / -	5 / 1.030
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.200	5 / 1.030	- / -	6 / 1.230

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	3	2	-	6
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	2	-	6

Method of Implementation (Organic): HH+ Antenna - Not Installed	Installation Quantity: 10
Method of Implementation (Organic): HH+ Radome A Kit - Not Installed	Installation Quantity: 10
Method of Implementation (Organic): 30MM Gun - Not Installed	Installation Quantity: 10
Method of Implementation (Organic): Weapon @ OWS430 - Not Installed	Installation Quantity: 10
Method of Implementation (Organic): BLOS B Kit - Not Installed	Installation Quantity: 10
Method of Implementation (Organic): 30mm Gun - Not Installed	Installation Quantity: 10

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Modification Item 1 of 1: C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

Installation Information

Method of Implementation (Organic): Weapons @ OWS430 - Not Installed	Installation Quantity: 10
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Footnotes:

- (1) FY15/FY16 includes 10 VDL A Kits.
- (2) FY19 Beyond Line of Sight (BLOS) requirement starts with Kit procurement and installation.
- (3) PY (25.684) includes 10 ISR/Weapon Mission A Kits and 10 SOPGM A Kits.
- (4) FY19 Beyond Line of Sight (BLOS) requirement starts with Kit procurement and installation.
- (5) FY20 Joint Air to Ground Munitions (JAGM) requirement starts with Kit procurement and installation.
- (6) PY (91.480) includes 6 ISR/Weapon B Kits, 6 SOPGM B Kits, 7 TSS, 6 MX-20's and 6 HH+ VDL B Kits.
- (7) FY17 increase due to obsolescence issues to address fleet capability gaps.
- (8) FY17 increase due to obsolescence issues to address fleet capability gaps.
- (9) FY17 increase of Interim Contractor Support costs due to standup of HH+.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series				Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	47.466	18.781	20.955	18.704	-	18.704	15.619	17.346	17.460	19.030	93.684	269.045
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	47.466	18.781	20.955	18.704	-	18.704	15.619	17.346	17.460	19.030	93.684	269.045
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	47.466	18.781	20.955	18.704	-	18.704	15.619	17.346	17.460	19.030	93.684	269.045
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Objective of the Avionics/Obsolescence Upgrades (AOU) Operational, Safety and Improvement Program is to preserve the world-wide capabilities of the C/KC-130 aircraft by providing required capability enhancements and addressing obsolescence. The legacy C/KC-130T and KC-130F model aircraft have been in service for 21 and 45 years respectively and still retain many of their original systems which require upgrade to increase mission readiness, meet Communication, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) requirements and address obsolescence issues. In addition obsolescence / Diminishing Manufacturing Sources (DMS) issues are already being realized on the KC-130J aircraft and will have to be addressed in the near future. These upgrades will include faster, more robust processing systems and integrated displays enabling compliance with CNS/ATM requirements. It will provide a growth path to Mode 5 and Joint Precision Landing systems. It will replace numerous avionics systems: radar, Tactical Air Navigation , data recorders, and gauges due to obsolescence or DMS. These upgrades will provide open-systems architecture and interfaces necessary to integrate Real-Time Information in the Cockpit. Changes will also be incorporated into existing training devices. In addition, obsolescence issues with the propeller synchrophaser and valve housing are the C/KC-130T top ten readiness degraders. Modification of these propeller control components via an Electronic Propeller Control System upgrade will mitigate this readiness degrader.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: AOU program affecting 20 C-130T aircraft is post MS-C, LRIP 1 approved. Government is Lead Systems Integrator for AOU, performing the majority of the NRE and installation of the validation and verification aircraft kits. One kit (Validation) will be installed by the Government followed by Govt Developmental Test (DT) in FY2016, followed by a second aircraft (Verification) installed by the Government and 18 production installations. Contract awarded for software integration NRE and non-developmental systems in September 2012. USMC KC-130T aircraft may require this upgrade as well, dependant upon status of transition to KC-130J aircraft.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)			
Models of Systems Affected: C/KC-130T/J				Modification Type: Safety / Readiness				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Avionics /Obsolescence Upgrades (OSIP 008-12)</i>													
A Kits													
Recurring													
1.1.1) A Kits - NonOrganic ⁽¹⁰⁾	- / 0.050	1 / 1.174	1 / 1.289	1 / 1.485	- / -	1 / 1.485	2 / 3.029	2 / 3.090	2 / 3.152	2 / 3.215	8 / 13.515	19 / 29.999	
<i>Subtotal: Recurring</i>	- / 0.050	- / 1.174	- / 1.289	- / 1.485	- / -	- / 1.485	- / 3.029	- / 3.090	- / 3.152	- / 3.215	- / 13.515	- / 29.999	
Non-Recurring													
1.2.1) Installation Kits N/R - NonOrganic ⁽¹¹⁾	1 / 23.395	- / 1.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 24.528	
<i>Subtotal: Non-Recurring</i>	- / 23.395	- / 1.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.528	
B Kits													
Recurring													
2.1.1) B Kits - Organic ⁽¹²⁾	- / 1.287	1 / 2.289	1 / 2.360	1 / 2.398	- / -	1 / 2.398	2 / 5.784	2 / 5.963	2 / 6.138	2 / 6.332	8 / 27.705	19 / 60.256	
<i>Subtotal: Recurring</i>	- / 1.287	- / 2.289	- / 2.360	- / 2.398	- / -	- / 2.398	- / 5.784	- / 5.963	- / 6.138	- / 6.332	- / 27.705	- / 60.256	
Non-Recurring													
2.2.1) NRE/TEST - Government - Organic ⁽¹³⁾	- / 2.113	- / -	- / 1.391	- / 1.196	- / -	- / 1.196	- / 10.713	- / -	- / -	- / -	- / -	- / 18.413	
2.2.2) NRE - Contractor - Organic ⁽¹⁴⁾	1 / 10.059	- / 5.956	- / 6.337	- / 2.614	- / -	- / 2.614	- / -	- / -	- / -	- / -	- / -	1 / 24.966	
<i>Subtotal: Non-Recurring</i>	- / 12.172	- / 5.956	- / 7.728	- / 6.810	- / -	- / 6.810	- / 10.713	- / -	- / -	- / -	- / -	- / 33.379	
<i>Subtotal: Avionics /Obsolescence Upgrades (OSIP 008-12)</i>	2 / 36.904	2 / 10.552	2 / 11.377	2 / 10.693	- / -	2 / 10.693	4 / 9.526	4 / 9.053	4 / 9.290	4 / 9.547	16 / 41.220	40 / 148.162	
<i>Subtotal: Procurement, All Modification Items</i>	- / 36.904	- / 10.552	- / 11.377	- / 10.693	- / -	- / 10.693	- / 9.526	- / 9.053	- / 9.290	- / 9.547	- / 41.220	- / 148.162	
Support (All Modification Items)													
3.2) Data	- / 0.478	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.569	- / -	- / 12.047	
3.3) Training Equipment ⁽¹⁵⁾	- / 0.109	- / 0.095	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.625	- / 19.329	
3.4) Support Equipment	- / 2.373	- / -	- / 0.254	- / 0.259	- / -	- / 0.259	- / 0.336	- / 0.270	- / 0.675	- / 0.280	- / 1.489	- / 5.936	
3.5) ILS ⁽¹⁶⁾	- / 0.865	- / 1.754	- / 1.199	- / 1.219	- / -	- / 1.219	- / 1.259	- / 1.446	- / 1.421	- / 1.448	- / 8.204	- / 18.815	
3.6) Other Support ⁽¹⁷⁾	- / 6.737	- / 4.512	- / 4.725	- / 4.595	- / -	- / 4.595	- / 2.521	- / 2.545	- / 1.960	- / 1.990	- / 10.951	- / 40.536	
<i>Subtotal: Support</i>	- / 10.562	- / 6.361	- / 7.678	- / 6.073	- / -	- / 6.073	- / 4.116	- / 4.261	- / 4.056	- / 5.287	- / 28.269	- / 76.663	
Installation													
<i>Modification Item 1 of 1: Avionics /Obsolescence Upgrades (OSIP 008-12)</i>	- / 0.000	- / 1.868	- / 1.900	- / 1.938	- / -	- / 1.938	- / 1.977	- / 4.032	- / 4.114	- / 4.196	- / 24.195	- / 44.220	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)		
Models of Systems Affected: C/KC-130T/J				Modification Type: Safety / Readiness				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
<i>Subtotal: Installation</i>	- / 0.000	- / 1.868	- / 1.900	- / 1.938	- / -	- / 1.938	- / 1.977	- / 4.032	- / 4.114	- / 4.196	- / 24.195	- / 44.220
Total												
Total Cost (Procurement + Support + Installation)	47.466	18.781	20.955	18.704	-	18.704	15.619	17.346	17.460	19.030	93.684	269.045

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)

Modification Item 1 of 1: Avionics /Obsolescence Upgrades (OSIP 008-12)

Manufacturer Information

Manufacturer Name: Multiple	Manufacturer Location: TBD - A Kits
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 10

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Apr 2015	Jan 2016	Jan 2017	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates	Mar 2016	Jan 2017	Oct 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021

Installation Information

Method of Implementation: Contractor Drive In Mod:: Installation Name: AOU

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	1 / 1.868	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / 1.868
FY 2015	- / -	- / -	1 / 1.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.900
FY 2016	- / -	- / -	- / -	1 / 1.938	- / -	1 / 1.938	- / -	- / -	- / -	- / -	- / -	1 / 1.938
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.977	- / -	- / -	- / -	- / -	1 / 1.977
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.032	- / -	- / -	- / -	2 / 4.032
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.114	- / -	- / -	2 / 4.114
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.196	- / -	2 / 4.196
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.839	2 / 4.839
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 19.356	8 / 19.356
Total	- / -	1 / 1.868	1 / 1.900	1 / 1.938	- / -	1 / 1.938	1 / 1.977	2 / 4.032	2 / 4.114	2 / 4.196	10 / 24.195	20 / 44.220

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	1	-	-	-	1	-	-	1	-	-	-	1	-	-	-	1	1	-	-	1	1	-	-	1	1	-	10	20
Out	-	-	-	-	-	1	-	-	-	1	-	-	1	-	1	-	-	-	1	1	-	-	1	1	-	-	1	1	10	20	

Method of Implementation (Organic): B Kits **Installation Quantity:** 19

Method of Implementation (Organic): NRE - Contractor - Not Installed **Installation Quantity:** 1

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)

- Footnotes:**
- (10) Some costs for the Validation Kit and Verification Kit are embedded in NRE for the FY15 A Kits.
 - (11) Some costs for the Validation Kit and Verification Kit are embedded in NRE for the FY15 A Kits.
 - (12) Funding required increases in FY18 due to economic pricing and new contracts.
 - (13) Some costs for the Validation Kit and Verification Kit are embedded in NRE for the FY15 A Kits. Government DT test and OT test begin in FY16 and continue through FY17 to support FY18 IOC.
 - (14) Funds Phase 2 and Phase 3 of the software integration contract.
 - (15) Funds material and labor contract necessary to perform 2F107 full motion operational flight trainer modification required for FOC (8/2023).
 - (16) AOU program CNS ATM funding will be provided by PMA 209 for program support in FY18 through FY21.
 - (17) AOU program CNS ATM funding will be provided by PMA 209 for program support in FY18 through FY21.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series				Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	53.113	3.150	17.037	5.949	-	5.949	3.400	8.616	15.217	9.343	58.098	173.923
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	53.113	3.150	17.037	5.949	-	5.949	3.400	8.616	15.217	9.343	58.098	173.923
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	53.113	3.150	17.037	5.949	-	5.949	3.400	8.616	15.217	9.343	58.098	173.923
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The KC-130 provides air-to-air refueling, rapid ground refueling, tactical troop transport, aerial delivery of personnel and cargo, airborne radio relay, tactical aero-medical evacuation, intelligence, surveillance, and reconnaissance (ISR), and Close Air Support (CAS). This OSIP provides funding for the addition of new Aircraft Survivability Equipment (ASE), including Large Aircraft Infrared Counter Measures (LAIRCM) with Advanced Threat Warning (ATW), KC-130J Adjustable Ballast System (JABS) and LAIRCM Enhanced Situational Awareness (LESA), to the KC-130J Aircraft which will increase survivability and allow the aircraft to operate under expanded threat environments, thereby increasing combat effectiveness. Aircraft operations, such as Harvest HAWK missions, include exposure to threats against which the current ASE is not effective. The addition of LAIRCM (ATW) to the KC-130J expands the aircrafts capability to perform its core Mission Essential Tasking in any infrared threat environment. This OSIP also provides funding to ensure the most effective threat adaptive, reprogrammable, computer controlled threat defeating capabilities for the Defensive Electronic Counter Measures (DECM) portion of the ASE to increase combat effectiveness.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The USMC is leveraging off of integration development and testing performed by the USAF to provide LAIRCM for its C-130J and HC/MC-130J to minimize Non-Recurring Engineering (NRE), test, and installation costs. The USMC is also leveraging off of DoN LAIRCM platforms to provide a common solution among naval platforms and to reduce Operations and Support (O&S) costs. Modification of aircraft will be performed as a Drive-In Modification.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)			
Models of Systems Affected: C/KC-130T/J				Modification Type: Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Electronic Counter Measures (OSIP 020-12)													
A Kits													
Recurring													
1.1.1) LAIRCM A Kit - NonOrganic ⁽¹⁸⁾	16 / 3.416	- / -	- / -	2 / 1.457	- / -	2 / 1.457	- / -	7 / 5.304	7 / 5.410	- / -	24 / 19.735	56 / 35.322	
1.1.2) LAIRCM JABS - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.446	7 / 0.455	- / -	- / 1.658	14 / 2.559	
Subtotal: Recurring	- / 3.416	- / -	- / -	- / 1.457	- / -	- / 1.457	- / -	- / 5.750	- / 5.865	- / -	- / 21.393	- / 37.881	
Non-Recurring													
1.2.2) NRE - Contractor - Organic ⁽¹⁹⁾	- / 22.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.078	
Subtotal: Non-Recurring	- / 22.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.078	
B Kits													
Recurring													
2.1.1) LAIRCM B Kit - Organic ⁽²⁰⁾	12 / 17.461	- / 0.173	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 17.634	
2.1.2) Meons - Organic	6 / 0.526	- / -	- / -	- / 0.010	- / -	- / 0.010	- / -	- / 0.010	- / -	- / -	- / -	6 / 0.546	
2.1.3) GFE - Organic	- / -	- / -	- / -	- / 0.052	- / -	- / 0.052	- / -	- / 0.188	- / 0.192	- / -	- / 0.659	- / 1.091	
Subtotal: Recurring	- / 17.987	- / 0.173	- / -	- / 0.062	- / -	- / 0.062	- / -	- / 0.198	- / 0.192	- / -	- / 0.659	- / 19.271	
Non-Recurring													
2.2.1) NRE/Test - Government - Organic	- / 0.529	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.529	
Subtotal: Non-Recurring	- / 0.529	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.529	
Subtotal: Electronic Counter Measures (OSIP 020-12)	34 / 44.010	- / 0.173	- / -	2 / 1.519	- / -	2 / 1.519	- / -	14 / 5.948	14 / 6.057	- / -	24 / 22.052	88 / 79.759	
Subtotal: Procurement, All Modification Items	- / 44.010	- / 0.173	- / -	- / 1.519	- / -	- / 1.519	- / -	- / 5.948	- / 6.057	- / -	- / 22.052	- / 79.759	
Support (All Modification Items)													
3.2) Data	- / 0.005	- / -	- / 0.689	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.694	
3.3) Training Equipment	- / -	- / -	- / 2.523	- / -	- / -	- / -	- / -	- / 1.263	- / -	- / -	- / -	- / 3.786	
3.4) Support Equipment	- / 1.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.054	
3.5) ILS	- / 1.291	- / 0.752	- / 0.725	- / 0.538	- / -	- / 0.538	- / 0.539	- / 0.540	- / 0.550	- / 0.561	- / 2.359	- / 7.855	
3.6) Other Support ⁽²¹⁾	- / 6.753	- / 1.250	- / 0.734	- / 0.688	- / -	- / 0.688	- / 0.703	- / 0.865	- / 0.881	- / 0.899	- / 3.780	- / 16.553	
Subtotal: Support	- / 9.103	- / 2.002	- / 4.671	- / 1.226	- / -	- / 1.226	- / 1.242	- / 2.668	- / 1.431	- / 1.460	- / 6.139	- / 29.942	
Installation													
Modification Item 1 of 1: Electronic Counter Measures (OSIP 020-12)	- / 0.000	- / 0.975	- / 12.366	- / 3.204	- / -	- / 3.204	- / 2.158	- / -	- / 7.729	- / 7.883	- / 29.907	- / 64.222	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)

Models of Systems Affected: C/KC-130T/J	Modification Type: Safety	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Installation</i>	- / 0.000	- / 0.975	- / 12.366	- / 3.204	- / -	- / 3.204	- / 2.158	- / -	- / 7.729	- / 7.883	- / 29.907	- / 64.222
Total												
Total Cost (Procurement + Support + Installation)	53.113	3.150	17.037	5.949	-	5.949	3.400	8.616	15.217	9.343	58.098	173.923

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)

Modification Item 1 of 1: Electronic Counter Measures (OSIP 020-12)

Manufacturer Information

Manufacturer Name: Lockheed Martin - LAIRCM	Manufacturer Location: Marietta, GA
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 16

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017		Jan 2019	Jan 2020	
Delivery Dates			May 2018		May 2020	May 2021	

Installation Information

Method of Implementation: Contractor Drive-In Modification:: Installation Name: LAIRCM A Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	1 / 0.975	12 / 12.366	3 / 3.204	- / 0.000	3 / 3.204	- / -	- / -	- / -	- / -	- / 0.000	16 / 16.545
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.158	- / -	- / -	- / -	- / -	2 / 2.158
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 7.729	- / -	- / -	7 / 7.729
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 7.883	- / -	7 / 7.883
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 29.907	24 / 29.907
Total	- / -	1 / 0.975	12 / 12.366	3 / 3.204	- / -	3 / 3.204	2 / 2.158	- / -	7 / 7.729	7 / 7.883	24 / 29.907	56 / 64.222

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	1	-	4	4	4	2	1	-	-	-	-	2	-	-	-	-	-	-	-	4	3	-	-	4	3	24	56
Out	-	-	-	-	-	1	-	4	4	4	2	1	-	-	-	-	2	-	-	-	-	-	-	-	4	3	-	-	4	27	56

Method of Implementation (Organic): LAIRCM JABS - Not Installed **Installation Quantity:** 14

Method of Implementation (Organic): LAIRCM B Kit - Not Installed **Installation Quantity:** 12

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)

Modification Item 1 of 1: Electronic Counter Measures (OSIP 020-12)

Installation Information

Method of Implementation (Organic): Meons - Not Installed	Installation Quantity: 6
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Footnotes:

- (18) Aircraft equipped with A Kits can operate with or without B Kits. 16 A Kits procured via sole source contract will be delivered in FY16/17.
- (19) The cost for the Validation Kit, TKI Kit, and Verification Kit and associated installation for the Validation Kit and TKI Kit is embedded in the NRE cost in PY.
- (20) Kit cost based on required components in each FY; not by the inflation factor.
- (21) Program ramping back up with 7 kits and support in FY19.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series				Modification Number / Title: 4 / Hose Reel Reliability Improvements (OSIP 007-13)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2.025	0.964	-	-	-	-	-	-	-	-	-	2.989
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2.025	0.964	-	-	-	-	-	-	-	-	-	2.989
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2.025	0.964	-	-	-	-	-	-	-	-	-	2.989
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The KC-130 provides air-to-air refueling, rapid ground refueling, tactical troop transport, aerial delivery of personnel and cargo, airborne radio relay, tactical aero-medical evacuation, intelligence, surveillance, and reconnaissance (ISR), and Close Air Support (CAS). Aerial refueling missions utilize wing mounted refueling pods for refueling high speed and low speed aircraft. The Hose Reel Reliability Improvement program will address the #3 KC-130 readiness degrader by installing a cycle counter to help establish scheduled maintenance/overhaul schedules vice fly to failure replacement while standardizing the configuration of Hose Reels in the KC-130 Fleet. This program will increase Hose Reel reliability as well as increase overall aerial refueling readiness. In addition, it will improve aerial refueling safety, particularly for MV-22 and Joint Strike Fighter. These efforts will also mitigate risk of catastrophic failure which could lead to loss of aircraft and crew.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The cycle counter being installed in the KC-130J Hose Reel is a Commercial Off the Shelf item that will allow Hose Reel deployment cycles to being counted and will assist in establishing routine maintenance cycles vice fly to failure. Updating the Hose Reels to a -110 configuration will occur simultaneously with the counter installation which will allow for refueling of the MV-22 and the Joint Strike Fighter. This effort will be done organically.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 4 / Hose Reel Reliability Improvements (OSIP 007-13)			
Models of Systems Affected: KC-130T/J				Modification Type: Reliability / Safety					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Hose Reel Reliability Improvements (OSIP 007-13)</i>													
B Kits													
Recurring													
2.1.1) B Kit - Organic	40 / 1.681	10 / 0.545	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 2.226	
<i>Subtotal: Recurring</i>	- / 1.681	- / 0.545	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.226	
<i>Subtotal: Hose Reel Reliability Improvements (OSIP 007-13)</i>	40 / 1.681	10 / 0.545	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 2.226	
<i>Subtotal: Procurement, All Modification Items</i>	- / 1.681	- / 0.545	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.226	
Support (All Modification Items)													
3.2) Data	- / 0.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.024	
3.5) ILS	- / 0.091	- / 0.009	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	
3.6) Other Support	- / 0.229	- / 0.410	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.639	
<i>Subtotal: Support</i>	- / 0.344	- / 0.419	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.763	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	2.025	0.964	-	-	-	-	-	-	-	-	-	2.989	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 4 / Hose Reel Reliability Improvements (OSIP 007-13)

Modification Item 1 of 1: Hose Reel Reliability Improvements (OSIP 007-13)

Installation Information

Method of Implementation (Organic): B Kit	Installation Quantity: 50
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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series				Modification Number / Title: 5 / Technical Insertion (OSIP 019-14)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	2.445	21.045	20.134	-	20.134	41.778	53.326	51.472	68.606	134.297	393.103
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	2.445	21.045	20.134	-	20.134	41.778	53.326	51.472	68.606	134.297	393.103
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	2.445	21.045	20.134	-	20.134	41.778	53.326	51.472	68.606	134.297	393.103

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Technical Insertion provides for the incorporation of new or updated technologies to support safety, reliability, supportability, obsolescence, deficiency correction, mandated modifications, commonality, interoperability or affordability of the C/KC-130 platform. Technical Insertion updates support those technology initiatives that apply to aircraft avionics, navigation, communications, transponders, sensors, transmitters, antennae, mission computers and associated systems, electronic mission systems, or other electronic aircraft systems.

Current modifications include: KC-130J Block Upgrade 7.0/8.1, which includes CNS/ATM mandates (new FMS, transponder and Mission Computer updates for RNP-RNAV and ADS-B), safety improvements (improved ICS/PA System and enhanced covert lighting), deficiency correction (TEMPEST compliance) and interoperability updates (Mode 5 IFF and Link 16). The Electronic Propeller Control System (EPCS) replaces the failure prone hydro-mechanical propeller control with a solid-state digital system and addresses the #1 readiness degrader for the legacy C/KC-130.

Future modifications could include: Capability Management Upgrade (CMU)/Block Upgrade 9.0 will include Flight Management System performance enhancements, additional capabilities and addresses obsolescence issues to ensure future mission readiness of the KC-130J fleet. Software Reprogrammable Payload (SRP) and/or Tactical Airborne Command, Control, Communications, and Intelligence (C3I) Pod (TACPOD), which will augment existing C/KC-130 interoperability capabilities, The Blue Force Tracker (BFT) Blue Force Situational Awareness (BFSA) initiative will add the C/KC-130 to the network, which includes all other assault support and US Army platforms. KuSS Beyond Line of Sight (BLOS) is a system upgrade that provides High Speed Data for beyond line of sight communications and provides interoperability across the services. The RADAR Receiver Upgrade addresses the obsolete APS-133 Radar Set which is the #1 avionics system level readiness degrader for the legacy C/KC-130 aircraft, providing enhanced reliability and supportability. The TACAN Upgrade addresses the obsolescence of the ARN-139 TACAN Set, which is only installed on Navy and Marine C/KC-130 aircraft and is no longer maintained due to lack of spare components.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Block 7.0 / Block 8.1 peculiar NRE will start in FY15 with the first Trial Kit Install in FY17; the upgrade consists of 59 kits and installs starting in FY15 and completing beyond the FYDP.

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Exhibit P-3a, Individual Modification: PB 2017 Navy								Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series				Modification Number / Title: 5 / Technical Insertion (OSIP 019-14)					
Models of Systems Affected: KC-130T/J				Modification Type: Capability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Technical Insertion (OSIP 019-14)													
A Kits													
Recurring													
1.1.1) A Kit 7.0/8.1 Block Upgrade - NonOrganic ⁽²²⁾	- / -	- / -	2 / 2.845	- / -	- / -	- / -	8 / 12.072	12 / 18.651	9 / 14.408	11 / 18.138	16 / 27.428	58 / 93.542	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 2.845	- / -	- / -	- / -	- / 12.072	- / 18.651	- / 14.408	- / 18.138	- / 27.428	- / 93.542	
Non-Recurring													
1.2.1) Installation Kit N/R Block Upgrade - Organic ⁽²³⁾	- / -	- / 2.163	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.163	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / 2.163	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.163	
B Kits													
Recurring													
2.1.1) B Kit 7.0/8.1 Block Upgrade - Organic	- / -	- / -	2 / 4.424	- / -	- / -	- / -	8 / 18.775	12 / 29.007	9 / 22.408	11 / 28.209	16 / 42.659	58 / 145.482	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 4.424	- / -	- / -	- / -	- / 18.775	- / 29.007	- / 22.408	- / 28.209	- / 42.659	- / 145.482	
Non-Recurring													
2.2.1) Installation Kit N/R Block Upgrade - Organic	- / -	- / -	- / 3.494	- / 0.950	- / -	- / 0.950	- / -	- / -	- / -	- / -	- / -	- / 4.444	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / 3.494	- / 0.950	- / -	- / 0.950	- / -	- / -	- / -	- / -	- / -	- / 4.444	
<i>Subtotal: Technical Insertion (OSIP 019-14)</i>	- / -	- / 2.163	4 / 10.763	- / 0.950	- / -	- / 0.950	16 / 30.847	24 / 47.658	18 / 36.816	22 / 46.347	32 / 70.087	116 / 245.631	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 2.163	- / 10.763	- / 0.950	- / -	- / 0.950	- / 30.847	- / 47.658	- / 36.816	- / 46.347	- / 70.087	- / 245.631	
Support (All Modification Items)													
3.2) Data Block Upgrade	- / -	- / -	- / 0.814	- / 0.810	- / -	- / 0.810	- / 0.419	- / -	- / -	- / -	- / -	- / 2.043	
3.3) Training Equipment Block Upgrade ⁽²⁴⁾	- / -	- / -	- / 7.549	- / 15.581	- / -	- / 15.581	- / 3.986	- / 14.137	- / 14.205	- / 7.932	- / 17.888	- / 61.278	
3.4) Support Equipment Block Upgrade	- / -	- / -	- / 0.578	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.578	
3.5) ILS Block Upgrade ⁽²⁵⁾	- / -	- / 0.075	- / 0.782	- / 0.897	- / -	- / 0.897	- / 0.905	- / 0.927	- / 0.956	- / 0.974	- / 1.153	- / 6.669	
3.6) Other Support Block Upgrade ⁽²⁶⁾	- / -	- / 0.207	- / 0.559	- / 0.581	- / -	- / 0.581	- / 0.593	- / 0.604	- / 0.622	- / 0.635	- / 1.157	- / 4.958	
3.7) Interim Contractor Support ⁽²⁷⁾	- / -	- / -	- / -	- / 1.315	- / -	- / 1.315	- / 1.576	- / -	- / -	- / -	- / -	- / 2.891	
<i>Subtotal: Support</i>	- / 0.000	- / 0.282	- / 10.282	- / 19.184	- / -	- / 19.184	- / 7.479	- / 5.668	- / 5.783	- / 9.541	- / 20.198	- / 78.417	
Installation													
<i>Modification Item 1 of 1:</i> Technical Insertion (OSIP 019-14)	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.452	- / -	- / 8.873	- / 12.718	- / 44.012	- / 69.055	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.452	- / -	- / 8.873	- / 12.718	- / 44.012	- / 69.055	
Total													

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0560 / C-130 Series **Modification Number / Title:** 5 / Technical Insertion (OSIP 019-14)

Models of Systems Affected: KC-130T/J **Modification Type:** Capability **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	0.000	2.445	21.045	20.134	-	20.134	41.778	53.326	51.472	68.606	134.297	393.103

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 5 / Technical Insertion (OSIP 019-14)

Modification Item 1 of 1: Technical Insertion (OSIP 019-14)

Manufacturer Information

Manufacturer Name: TBD - ECPS Manufacturer Location: TBD

Administrative Leadtime (in Months): 12 Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: Lockheed Martin - Block Upgrade Manufacturer Location: Greenville, SC

Administrative Leadtime (in Months): 5 Production Leadtime (in Months): 24

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Feb 2018		Feb 2020	Feb 2021
Delivery Dates				Feb 2020		Feb 2022	Feb 2023

Installation Information

Method of Implementation: Contractor Drive-In Mod:: Installation Name: A Kit 7.0/8.1 Block Upgrade

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.452	- / -	- / -	- / -	- / -	2 / 3.452
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 8.873	- / -	- / -	8 / 8.873
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 12.718	3 / -	12 / 12.718
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 11.003	9 / 11.003
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 13.448	11 / 13.448
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 19.561	16 / 19.561
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.452	- / -	8 / 8.873	9 / 12.718	39 / 44.012	58 / 69.055

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	3	3	2	-	3	3	3	39	58
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	3	3	2	-	3	45	58

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 5 / Technical Insertion (OSIP 019-14)
Modification Item 1 of 1: Technical Insertion (OSIP 019-14)		
Installation Information		
Method of Implementation (Organic): B Kit 7.0/8.1 Block Upgrade - Not Installed		Installation Quantity: 58

Footnotes:
(22) Block Upgrade Kits long lead time 18 - 24 months.
(23) Block Upgrade NRE for TKI in FY15.
(24) FY17 increase due to initial modification to Weapon System Trainer (WST) and Cockpit Trainer (CPT).
(25) FY17 increase due to testing.
(26) FY17 increase due to testing.
(27) FY17 increase due to Trial Kit Installation (TKI)

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series				Modification Number / Title: 6 / Safety/Obsolescence Upgrades (OSIP 015-17)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	2.618	-	2.618	3.366	-	-	-	9.881	15.865
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	2.618	-	2.618	3.366	-	-	-	9.881	15.865
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	2.618	-	2.618	3.366	-	-	-	9.881	15.865
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to Navy C/KC-130 aircraft. To ensure preservation of Marine Air Ground Task Force (MAGTF) Assault Support and Navy-Unique Fleet Essential Aircraft capabilities world-wide, this Safety, Reliability and Obsolescence Improvement OSIP provides funding for issues that adversely affect aircraft safety, reliability and/or availability. Applicable areas include Power and Propulsion, Airframes and Structures, Safety and Life Support, Electrical Power, and Survivability.

The current KC-130 aircraft does not have a crashworthy observer seat in the cargo compartment. This is a critical safety issue due to the mission of the KC-130 aircraft. Funding will begin in FY17.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 6 / Safety/Obsolescence Upgrades (OSIP 015-17)			
Models of Systems Affected: KC-130J/T				Modification Type: Safety / Reliability / Obsolescence				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Safety/Obsolescence Upgrades (OSIP 015-17)</i>													
B Kits													
Recurring													
2.1.1) KC-130J Observer Seat B Kit - Organic	- / -	- / -	- / -	20 / 2.219	- / -	20 / 2.219	30 / 3.222	- / -	- / -	- / -	98 / 9.743	148 / 15.184	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 2.219	- / -	- / 2.219	- / 3.222	- / -	- / -	- / -	- / 9.743	- / 15.184	
Non-Recurring													
2.2.1) KC-130J Observer Seat Testing - Organic	- / -	- / -	- / -	- / 0.164	- / -	- / 0.164	- / -	- / -	- / -	- / -	- / -	- / 0.164	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / -	- / 0.164	- / -	- / 0.164	- / -	- / -	- / -	- / -	- / -	- / 0.164	
<i>Subtotal: Safety/Obsolescence Upgrades (OSIP 015-17)</i>	- / -	- / -	- / -	20 / 2.383	- / -	20 / 2.383	30 / 3.222	- / -	- / -	- / -	98 / 9.743	148 / 15.348	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 2.383	- / -	- / 2.383	- / 3.222	- / -	- / -	- / -	- / 9.743	- / 15.348	
Support (All Modification Items)													
3.1) KC-130J Observer Seat Training	- / -	- / -	- / -	- / 0.033	- / -	- / 0.033	- / -	- / -	- / -	- / -	- / -	- / 0.033	
3.2) KC-130J Observer Seat Pubs	- / -	- / -	- / -	- / 0.063	- / -	- / 0.063	- / -	- / -	- / -	- / -	- / -	- / 0.063	
3.3) KC-130J Observer Seat ILS	- / -	- / -	- / -	- / 0.067	- / -	- / 0.067	- / 0.069	- / -	- / -	- / -	- / 0.069	- / 0.205	
3.4) KC-130J Observer Seat Other Support	- / -	- / -	- / -	- / 0.072	- / -	- / 0.072	- / 0.075	- / -	- / -	- / -	- / 0.069	- / 0.216	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 0.235	- / -	- / 0.235	- / 0.144	- / -	- / -	- / -	- / 0.138	- / 0.517	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	2.618	-	2.618	3.366	-	-	-	9.881	15.865	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 6 / Safety/Obsolescence Upgrades (OSIP 015-17)

Modification Item 1 of 1: Safety/Obsolescence Upgrades (OSIP 015-17)

Installation Information

Method of Implementation (Organic): KC-130J Observer Seat B Kit	Installation Quantity: 148
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 7 / Inactive OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	236.681	-	-	-	-	-	-	-	-	-	-	236.681
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	236.681	-	-	-	-	-	-	-	-	-	-	236.681
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	236.681	-	-	-	-	-	-	-	-	-	-	236.681
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 7 / Inactive OSIPs			
Models of Systems Affected: [No Model Specified]					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Inactive OSIPs													
A Kits													
Recurring													
1.1.1) Inactive OSIPs - Organic	- / 236.681	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 236.681	
<i>Subtotal: Recurring</i>	- / 236.681	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 236.681	
<i>Subtotal: Inactive OSIPs</i>	- / 236.681	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 236.681	
<i>Subtotal: Procurement, All Modification Items</i>	- / 236.681	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 236.681	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	236.681	-	-	-	-	-	-	-	-	-	-	236.681	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 7 / Inactive OSIPs
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	98.164	0.640	0.633	0.618	-	0.618	0.640	0.651	0.665	0.679	5.672	108.362
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	98.164	0.640	0.633	0.618	-	0.618	0.640	0.651	0.665	0.679	5.672	108.362
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	98.164	0.640	0.633	0.618	-	0.618	0.640	0.651	0.665	0.679	5.672	108.362

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in FLT ELECT WRFR SUPT GRP (FEWSG) by \$0.026M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

This line funds modifications to avionics equipment used for fleet training exercises by opposing forces and adversary forces used during counter surface and attack training scenarios and fleet exercises. The overall goal is to accurately simulate known and postulated electronic attack capability and tactics of radar and jammer threats expected to be encountered during operational deployments. Operation systems under OSIP 119-83 were divested prior to FY 2002.

Current equipment, AN/ALQ-167, AN/AST-6 and follow-on AN/AST-9 pod variants are carried aboard F/A-18, Lear Jet, Kfir (F-21), Hawker/Hunter (F-58), Gulfstream (G-1) and F-16 aircraft. Internal aircraft installation variants, AN/ULQ-21/24 are used in targets and the AN/ALQ-237 rack installation is used on F-5N. The remaining quantities of 20 legacy AST-6 pods are no longer repairable. These pods are being augmented/replaced by AN/AST-9 and will be flown until the end of their operational service life. FY 2010 - FY 2012 Below Threshold Reprogramming (BTR) funding procured 34 Advanced Digital Radio Frequency Memory (DRFM) systems to address adversary forces training requirements per Naval Strike Air Warfare Center Urgent Operational Need Statement. The adversary systems (aka HAVE ALL-Filthy Bader) comprised 19 ALQ-167 pods, 12 F-5 rack installs and 3 ACaP pods procured in coordination with the United States Air Force (USAF). Commenced in FY 2014, one legacy ALQ-167 pod per year from the remaining pods inventory will be converted to DRFM configuration.

Adversary Electronic Attack (EA) DRFM program systems completed deliveries in FY 2013 as funded under the Abbreviated Acquisition Plan (AAP) in FY 2010 - 2012. As a result, all subsequent installations are modifications to fleet systems based on the EA DRFM Roadmap for Filthy Badger classified program requirements. FY 2013 shifted program focus from full production to the Filthy Badger modification schedule and support of the required engineering and logistics to accomplish these upgrades in future years.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83) (RELIABILITY, MAINTAINABILITY, CAPABILITY)			- / 98.164	- / 0.640	- / 0.633	- / 0.618	- / -	- / 0.618
P-40	Total Gross/Weapon System Cost			- / 98.164	- / 0.640	- / 0.633	- / 0.618	- / -	- / 0.618

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83) (RELIABILITY, MAINTAINABILITY, CAPABILITY)			- / 0.640	- / 0.651	- / 0.665	- / 0.679	- / 5.672	- / 108.362
P-40	Total Gross/Weapon System Cost			- / 0.640	- / 0.651	- / 0.665	- / 0.679	- / 5.672	- / 108.362

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)				Modification Number / Title: 1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ ALQ-237, AN/ALQ-167 (OSIP 119-83)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	98.164	0.640	0.633	0.618	-	0.618	0.640	0.651	0.665	0.679	5.672	108.362
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	98.164	0.640	0.633	0.618	-	0.618	0.640	0.651	0.665	0.679	5.672	108.362
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	98.164	0.640	0.633	0.618	-	0.618	0.640	0.651	0.665	0.679	5.672	108.362
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line funds modifications to avionics equipment used for fleet training exercises by opposing forces and adversary forces used during counter surface and attack training scenarios and fleet exercises. The overall goal is to accurately simulate known and postulated electronic attack capability and tactics of radar and jammer threats expected to be encountered during operational deployments. Operation systems under OSIP 119-83 were divested prior to FY 2002.

Current equipment, AN/ALQ-167, AN/AST-6 and follow-on AN/AST-9 pod variants are carried aboard F/A-18, Lear Jet, Kfir (F-21), Hawker/Hunter (F-58), Gulfstream (G-1) and F-16 aircraft. Internal aircraft installation variants, AN/ULQ-21/24 are used in targets and the AN/ALQ-237 rack installation is used on F-5N. The remaining quantities of 20 legacy AST-6 pods are no longer repairable. These pods are being augmented/replaced by AN/AST-9 and will be flown until the end of their operational service life. FY 2010 - FY 2012 Below Threshold Reprogramming (BTR) funding procured 34 Advanced Digital Radio Frequency Memory (DRFM) systems to address adversary forces training requirements per Naval Strike Air Warfare Center Urgent Operational Need Statement. The adversary systems (aka HAVE ALL-Filthy Bader) comprised 19 ALQ-167 pods, 12 F-5 rack installs and 3 ACaP pods procured in coordination with the United States Air Force (USAF). Commenced in FY 2014, one legacy ALQ-167 pod per year from the remaining pods inventory will be converted to DRFM configuration.

Adversary Electronic Attack (EA) DRFM program systems completed deliveries in FY 2013 as funded under the Abbreviated Acquisition Plan (AAP) in FY 2010 - 2012. As a result, all subsequent installations are modifications to fleet systems based on the EA DRFM Roadmap for Filthy Badger classified program requirements. FY 2013 shifted program focus from full production to the Filthy Badger modification schedule and support of the required engineering and logistics to accomplish these upgrades in future years.

Background - In FY 2013 Adversary Electronic Attack Abbreviated Acquisition (AAP) program completed deliveries of 34 Advanced Digital Radio Frequency Memory (DRFM) systems in response to Commander Fleet Forces Urgent Operational Needs Statement (UONS) to quickly deliver and augment electronic attack training capacity and to mitigate some level of capability shortfall. The Adversary DRFM based systems included - 19 AN/ALQ-167 pods, 12 AN/ALQ-237 internal mounted systems and 3 ACaP pods.

Current status: Following rapid delivery of the 34 AAP systems, in FY 2013, the program shifted focus from full production to the Filthy Badger modification schedule and support of the engineering and logistics to accomplish these upgrades in future years and further directed for no additional legacy ALQ-167 pod conversions.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0561 / Fit Elect Wrfr Supt Grp (FEWSG)					Modification Number / Title: 1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ ALQ-237, AN/ALQ-167 (OSIP 119-83)			
Models of Systems Affected: NOT APPLICABLE					Modification Type: RELIABILITY, MAINTAINABILITY, CAPABILITY					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: AN/AST-6/9(V), AN/ ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83)</i>													
B Kits													
Recurring													
2.1.1) Install Equipment (B Kits) - Organic ⁽¹⁾	1,047 / 76.150	1 / 0.050	1 / 0.050	1 / 0.052	- / -	1 / 0.052	1 / 0.052	1 / 0.054	1 / 0.056	1 / 0.058	26 / 0.489	1,080 / 77.011	
<i>Subtotal: Recurring</i>	- / 76.150	- / 0.050	- / 0.050	- / 0.052	- / -	- / 0.052	- / 0.052	- / 0.054	- / 0.056	- / 0.058	- / 0.489	- / 77.011	
Non-Recurring													
2.2.1) Install Equipment N/R - Organic ⁽²⁾	- / 2.133	- / 0.072	- / 0.072	- / 0.074	- / -	- / 0.074	- / 0.074	- / 0.075	- / 0.076	- / 0.077	- / 0.567	- / 3.220	
<i>Subtotal: Non-Recurring</i>	- / 2.133	- / 0.072	- / 0.072	- / 0.074	- / -	- / 0.074	- / 0.074	- / 0.075	- / 0.076	- / 0.077	- / 0.567	- / 3.220	
<i>Subtotal: AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83)</i>	1,047 / 78.283	1 / 0.122	1 / 0.122	1 / 0.126	- / -	1 / 0.126	1 / 0.126	1 / 0.129	1 / 0.132	1 / 0.135	26 / 1.056	1,080 / 80.231	
<i>Subtotal: Procurement, All Modification Items</i>	- / 78.283	- / 0.122	- / 0.122	- / 0.126	- / -	- / 0.126	- / 0.126	- / 0.129	- / 0.132	- / 0.135	- / 1.056	- / 80.231	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 2.928	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.928	
3.2) Data	- / 0.406	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.406	
3.3) Training Equipment	3 / 4.815	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 4.815	
3.4) Support Equipment	- / 5.510	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.510	
3.5) ILS ⁽³⁾	- / 1.931	- / 0.260	- / 0.252	- / 0.260	- / -	- / 0.260	- / 0.260	- / 0.264	- / 0.268	- / 0.273	- / 2.288	- / 6.056	
3.6) Other Support ⁽⁴⁾	- / 4.291	- / 0.258	- / 0.259	- / 0.232	- / -	- / 0.232	- / 0.254	- / 0.258	- / 0.265	- / 0.271	- / 2.328	- / 8.416	
<i>Subtotal: Support</i>	- / 19.881	- / 0.518	- / 0.511	- / 0.492	- / -	- / 0.492	- / 0.514	- / 0.522	- / 0.533	- / 0.544	- / 4.616	- / 28.131	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	98.164	0.640	0.633	0.618	-	0.618	0.640	0.651	0.665	0.679	5.672	108.362	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)	Modification Number / Title: 1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ ALQ-237, AN/ALQ-167 (OSIP 119-83)
Modification Item 1 of 1: AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83)		
Installation Information		
Method of Implementation (Organic): Install Equipment (B Kits)		Installation Quantity: 1080

Footnotes:

- (1) 1. Adversary Electronic Attack (EA) Digital Radio Frequency Memory (DRFM) program systems completed deliveries in FY 2013 as funded under the Abbreviated Acquisition Plan (AAP) for FY 2010-2012. As a result, all future installations are modifications to Fleet systems based on the EA DRFM Roadmap for Filthy Badger requirements. In FY 2013, the program shifted focus from full production to the Filthy Badger modification. Cost increases in FY 2017 thru FY 2021 supports unique modifications, hardware and Fleet Training.
- (2) Cost increases in FY 2017 supports unique modifications, hardware and Fleet Training.
- (3) Increase in FY 2017 and FY 2019 thru FY 2021 provides the additional logistic supports required for the aging ALQ-167 Pod variants and AST-9 Pod variants.
- (4) FYs 2018, 2020, and 2021 Other Support increases to support the aging ALQ-167 Pod variants and AST-9 Pod variants.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	274.782	4.035	8.916	9.822	-	9.822	11.669	10.125	10.284	10.492	100.712	440.837
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	274.782	4.035	8.916	9.822	-	9.822	11.669	10.125	10.284	10.492	100.712	440.837
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	274.782	4.035	8.916	9.822	-	9.822	11.669	10.125	10.284	10.492	100.712	440.837

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in CARGO/TRANSPORT ACFT SERIES by \$0.418M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

The FY 2017 funding request was reduced by \$4.575 million to account for the availability of prior year execution balances.

This line item funds modifications to the following cargo and transport aircraft: C-9B, C-40A, C-20D, C-20G, C-37A, C-37B, C-26D, EC-26D, RC-26D, UC-35C, UC-35D, UC-12B, UC-12F, UC-12M, UC-12W, and RC-12M.

The C-9B Skytrain II, C-40A Clipper, C-20D Gulfstream III, C-20G Gulfstream IV, C-37A Gulfstream V, C-37 B Gulfstream 550, UC-35C Cessna Ultra, UC-35D Cessna Encore are commercial twin jet transport aircraft that provide time-critical medium lift logistic support for the fleet combatant commanders. The C-9B is capable of carrying up to 32,000 pounds of cargo and personnel for over 1,739 nautical miles. The C-40A can accommodate 121 passengers, or 8 pallets of cargo, or a combination configuration of 3 pallets and 70 passengers with a range of 3,400 nautical miles. The C-20G can accommodate 26 passengers or all pallets of cargo, or a combination of pallets and passengers with a range of 5,130 nautical miles. The C-20D and C-37 provide worldwide executive transport to Secretary of the Navy, Chief of Naval Operations, Commandant of the Marine Corps, and Fleet Commanders. The UC-35 provides transport for high priority passenger/cargo missions with time, place or mission sensitive requirements. The UC-35 can accommodate 6 passengers or 1,200 pounds of cargo with a range of 1,300 nautical miles. The C-12 King Air and C-26 Metro variants are commercial twin turbo-prop aircraft that provide shorter-range light lift passenger/cargo transport and range control missions. The C-12 is capable of carrying 6 passengers or maximum cargo capacity of 2,850 pounds, with a range of 1,075 nautical miles. The C-26 is capable of carrying 19 passengers 1,300 nautical miles.

In FY12-FY17 Block 2 aircraft modifications will occur. Some of the systems affected by Block 2 are Traffic Alert and Collision Avoidance System, Runway Awareness and Advisory System, UniLink 800/801 Aircraft Communications Addressing and Reporting System, Protected Mode and Baseline Controller Pilot Data Link Communication and Automatic Dependent Surveillance-Contract datalink, VHF Data Link Mode 2 for aircraft that have not been approved for exemption, Satellite Communications capability (Iridium or International Maritime Satellite) and services. In FY15 - FY21 Block 3 aircraft modifications include Automatic Dependent Surveillance to DO260B standards, Data Link recording capability that is tied to the Cockpit Voice Recorder, Expansion of data link systems/services based on global operational data-link mandates, integration of AN/APX-119 IFF Mode 5 with new digital control panel, Performance based navigation (RNAV/RNP), weather radar integration, L5 GLS capabilities, SATCOM upgrades required to meet new Iridium or International Maritime Satellite (INMARSAT) requirements. To combat jamming of commercial navigation systems incorporate anti jamming GPS antenna systems with M-code.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
NR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.035	8.916	9.822	-	9.822	11.669	10.125	10.284	10.492
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.035	8.916	9.822	-	9.822	11.669	10.125	10.284	10.492

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0562 / Cargo/Transport Acft Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86) (SAFETY/RELIABILITY)			- / 22.433	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025
P-3a	2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04) (SAFETY/RELIABILITY)			- / 176.531	- / 4.010	- / 8.716	- / 9.772	- / -	- / 9.772
P-3a	3 / Safety/Obsolescence Upgrades (013-16) (SAFETY/RELIABILITY)			- / 0.000	- / -	- / 0.175	- / 0.025	- / -	- / 0.025
P-3a	4 / RESERVE FORCES Inactive OSIPs (TBD)			- / 75.818	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 274.782	- / 4.035	- / 8.916	- / 9.822	- / -	- / 9.822

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86) (SAFETY/RELIABILITY)			- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / 22.608
P-3a	2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04) (SAFETY/RELIABILITY)			- / 11.619	- / 10.075	- / 10.234	- / 10.467	- / 100.712	- / 342.136
P-3a	3 / Safety/Obsolescence Upgrades (013-16) (SAFETY/RELIABILITY)			- / 0.025	- / 0.025	- / 0.025	- / -	- / -	- / 0.275
P-3a	4 / RESERVE FORCES Inactive OSIPs (TBD)			- / -	- / -	- / -	- / -	- / -	- / 75.818
P-40	Total Gross/Weapon System Cost			- / 11.669	- / 10.125	- / 10.284	- / 10.492	- / 100.712	- / 440.837

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
Basis for FY2016 budget request: provides funding to procure aircraft modifications for Cargo Transport Aircraft.

The FY 2017 funding request was reduced by \$4.6 million to account for the availability of prior year execution balances.

Basis for FY2017 budget request: provides funding to procure aircraft modifications for Communication, Navigation and Surveillance/Air Traffic Management (CNS/ATM) and Safety requirements for Cargo Transport Aircraft.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	22.433	0.025	0.025	0.025	-	0.025	0.025	0.025	0.025	0.025	-	22.608
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	22.433	0.025	0.025	0.025	-	0.025	0.025	0.025	0.025	0.025	-	22.608
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	22.433	0.025	0.025	0.025	-	0.025	0.025	0.025	0.025	0.025	-	22.608
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Federal Aviation Regulations require manufacturers of commercial aircraft and associated systems/subsystems to investigate discrepant conditions, failures, and potential safety problems reported by all operators. The results of these investigations with recommended corrective action are reviewed/authorized by Federal Aviation Administration (FAA) designated representatives and provided to all operators as service bulletins. Each service bulletin is a complete technical directive that provides corrective change information or detailed modification instructions. To ensure safe, reliable, FAA/Navy certified aircraft and to provide a program that will assure continued life extension at minimum cost, the Navy must maintain configuration and integrity compatible with FAA certified commercial models by incorporation of applicable service bulletins. The incorporation of certain service bulletins also serves to preclude extensive repairs/repetitive inspections. Crew equipment requirements in accordance with FAA directives and/or Navy requirements will be incorporated to ensure maximum safety in case of emergency. Specific examples of systems that will require modification to conform to FAA Service Bulletins and Directives include Brakes, Landing Gear Systems, Flight Controls, Engine Modifications, Propeller Modifications, Airframe Modifications, Hydraulics, Electrical/Mechanical Systems & Components, Fuel Systems, Software Modifications/Upgrades, Fire Detection Systems, Interior Environmental Systems, Pressurization Systems, Oxygen Systems, Pilot-Static Systems and Smoke/Fire Detection Systems. Modifications budgeted in this Operational Safety and Improvement Program include the incorporation of Service Bulletins/Directives requirements into the C-9B, C-40A, C-20D, C-20G, C-37A, C-37B, C-26D, EC-26D, RC-26D, UC-35C, UC-35D, UC-12B, UC-12F, UC-12M, UC-12W and RC-12M aircraft.

Development Status/Major Development Milestones: Service Bulletins are reviewed for possible incorporation on an as required basis. Prototype verification has been previously accomplished and approved by the FAA.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)

Models of Systems Affected: CARGO TRANSPORT AC SERIES	Modification Type: SAFETY/RELIABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)													
A Kits													
Recurring													
1.1.1) Tech Directive Implementation - Organic	- / 0.225	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.400
1.1.2) Archived Cost Elements - Organic	- / 17.478	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.478
Subtotal: Recurring	- / 17.703	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / 17.878
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 2.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.832
Subtotal: Non-Recurring	- / 2.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.832
Subtotal: FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)	- / 20.535	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / 20.710
Subtotal: Procurement, All Modification Items	- / 20.535	- / 0.025	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / 20.710

Support (All Modification Items)

3.1) Engineering Change Orders	- / 0.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.360
3.2) Data	- / 0.293	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.293
3.3) Training Equipment	- / 0.206	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.206
3.5) ILS	- / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.016
3.6) Other Support	- / 0.816	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.816
3.7) Interim Contractor Support	- / 0.207	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.207
Subtotal: Support	- / 1.898	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.898

Installation

Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
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Total

Total Cost (Procurement + Support + Installation)	22.433	0.025	0.025	0.025	-	0.025	0.025	0.025	0.025	0.025	0.025	-	22.608
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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)

Modification Item 1 of 1: FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES(OSIP 071-86)

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series						Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	176.531	4.010	8.716	9.772	-	9.772	11.619	10.075	10.234	10.467	100.712	342.136
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	176.531	4.010	8.716	9.772	-	9.772	11.619	10.075	10.234	10.467	100.712	342.136
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	176.531	4.010	8.716	9.772	-	9.772	11.619	10.075	10.234	10.467	100.712	342.136
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

World-wide airspace congestion and communication bandwidth saturation has led the International Civil Aviation Organization to restructure the world-wide airspace structure to improve safety through a series of equipment and performance mandates implemented by regional authorities. The Type/Models/Series cited below will be required to comply with Communication, Navigation and Surveillance - Air Traffic Management (CNS-ATM) mandates to retain the Navy's capability to operate these aircraft worldwide. Failure to comply with these time-phased mandates will result in being denied access to high-volume airspace (routing and altitudes) and airfields, and result in circuitous routing and sub optimal altitudes. Required modifications to meet these CNS-ATM mandates are being implemented on post production aircraft as capabilities listed in the third paragraph.

To minimize the impact of successive modifications and maximize aircraft availability, a block upgrade approach has been taken during this budget submit. Block upgrades have been prioritized and phased to meet regional mandates' just in time to ensure that commercial CNS-ATM solutions are available off the shelf to minimize non-reoccurring engineering associated with Federal Aviation Administration supplemental type certification. In order to incorporate CNS-ATM mandates several older aircraft (C-20D, C-35C, all C-26 and C-12) required the installation of a digital flight management and communication system.

CNS-ATM capabilities associated with each Block Upgrade are listed below:

C-40A: Block 3 - Upgrade SATCOM capability (Iridium or INMARSAT) and services to meet new I4 requirements; Automatic Dependent Surveillance to DO260B standards, Data Link recording enhancements, AN/APX-119 IFF Mode 5 with new digital control panel, Performance based navigation (RNAV/RNP), weather radar enhancement and L5 GLS Installs. Protected Mode and Baseline Controller Pilot Data Link Communication (PM-CPDLC) and Automatic Dependent Surveillance-Contract (ADS-C) datalink, and VHF Data Link Mode 2

C-37A/B: Block 3 - PM-CPDLC, ADS-C datalink, VHF Data Link Mode 2, SATCOM capability (Iridium or INMARSAT) and services, Automatic Dependent Surveillance to DO260B standards, Data Link recording enhancements, AN/APX-119 IFF Mode 5 with new digital control panel, RNAV/RNP, and L5 GLS Installs

C-35C: Block 3- Upgrade UNS-1Espw for Controller Pilot Data Link Communication (CPDLC) and ADS-C datalink, SATCOM capability (Iridium or INMARSAT) and services, Dependent Surveillance to DO260B standards, Data Link recording enhancements, AN/APX-119 IFF Mode 5 with new digital control panel, RNAV/RNP, and L5 GLS Installs

C-35D: Block 3 - Upgrade UNS-1Espw for CPDLC and ADS-C datalink and Dependent Surveillance to DO260B standards, Data Link recording enhancements, SATCOM capability (Iridium or INMARSAT) and services, AN/APX-119 IFF Mode 5 with new digital control panel, RNAV/RNP, weather integration and L5 GLS Installs and Anti-jamming GPS antenna and M code

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)
<p>EC/RC/UC-26D: Block 2 - Install Flight Management System upgrade, Proline 21, Wide Area Augmentation System (WAAS), Traffic Collision Avoidance System (TCAS 7.1), add provisions for Addressing and Reporting System (ACARS), Air Traffic Service (ATS) Facilities Notification. Block 3 - CPDLC and ADS-C datalink, CMU, add VDL-2 and SATCOM capability (Iridium or INMARSAT) and services, Automatic Dependent Surveillance to DO260B standards, AN/APX-119 IFF Mode 5 with new digital control panel, RNAV/RNP, and L5 GLS Installs</p> <p>C-9B & C-20D: Block 3 - SATCOM capability (Iridium or INMARSAT) and services, Automatic Dependent Surveillance to DO260B standards</p> <p>C-20G & C-12F/M: Block 3 - SATCOM capability (Iridium or INMARSAT) and services, Automatic Dependent Surveillance to DO260B standards, Data Link recording enhancements, AN/APX-119 IFF Mode 5 with new digital control panel, RNAV/RNP, and L5 GLS Installs</p> <p>UC-12W: Block 3 - WAAS, SATCOM capability (Iridium or INMARSAT) and services, Automatic Dependent Surveillance to DO260B standards, Data Link recording enhancements, AN/APX-119 IFF Mode 5 with new digital control panel, RNAV/RNP, L5 GLS Installs and Anti-jamming GPS antenna and M code</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Models of Systems Affected: CARGO TRANSPORT AC SERIES	Modification Type: SAFETY/RELIABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement												
Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)												
A Kits												
Recurring												
1.1.1) Block 2 (C-26) - NonOrganic ⁽¹⁾	14 / 3.580	1 / 0.100	2 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.200	19 / 4.080
1.1.2) Block 3 (C-40/C-9) - NonOrganic ⁽²⁾	12 / 0.496	- / -	3 / 0.540	7 / 1.260	- / -	7 / 1.260	4 / 0.800	12 / 3.100	13 / 3.151	2 / 0.300	18 / 2.188	71 / 11.835
1.1.3) Block 3 (C-37) - NonOrganic ⁽³⁾	1 / 1.900	- / -	1 / 0.200	- / -	- / -	- / -	4 / 0.800	- / -	- / -	1 / 0.300	9 / 1.980	16 / 5.180
1.1.4) Block 3 (UC-35) - NonOrganic ⁽⁴⁾	22 / 1.473	2 / 0.240	1 / 0.125	2 / 0.138	- / -	2 / 0.138	8 / 0.600	- / -	- / -	1 / 0.300	11 / 4.512	47 / 7.388
1.1.5) Block 3 (C-26) - NonOrganic	- / -	- / -	1 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.650	13 / 4.830	15 / 5.580
1.1.6) Block 3 (C-20) - NonOrganic	- / -	- / -	5 / 1.150	7 / 1.600	- / -	7 / 1.600	5 / 1.000	- / -	- / -	1 / 0.300	3 / 1.000	21 / 5.050
1.1.7) Block 3 (C-12) - NonOrganic ⁽⁵⁾	3 / 0.300	5 / 0.500	4 / 0.400	- / -	- / -	- / -	10 / 1.000	- / -	- / -	2 / 1.204	21 / 6.180	45 / 9.584
1.1.8) Archive Mods - Organic	- / 61.494	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 61.494
Subtotal: Recurring	- / 69.243	- / 0.840	- / 2.715	- / 2.998	- / -	- / 2.998	- / 4.200	- / 3.100	- / 3.151	- / 3.054	- / 20.890	- / 110.191
Non-Recurring												
1.2.1) Installation Kits N/R - Organic ⁽⁶⁾	- / 31.813	- / 0.886	- / 1.150	- / 1.761	- / -	- / 1.761	- / 1.355	- / 2.485	- / 2.105	- / 3.865	- / 6.275	- / 51.695
Subtotal: Non-Recurring	- / 31.813	- / 0.886	- / 1.150	- / 1.761	- / -	- / 1.761	- / 1.355	- / 2.485	- / 2.105	- / 3.865	- / 6.275	- / 51.695
B Kits												
Recurring												
2.1.1) Archived Mods - Organic	- / 44.754	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.754
2.1.2) Block 3 - Organic ⁽⁷⁾	3 / 1.440	- / -	10 / 1.362	25 / 1.390	- / -	25 / 1.390	25 / 1.904	12 / 2.144	13 / 2.642	7 / 1.262	51 / 37.061	146 / 49.205
Subtotal: Recurring	- / 46.194	- / -	- / 1.362	- / 1.390	- / -	- / 1.390	- / 1.904	- / 2.144	- / 2.642	- / 1.262	- / 37.061	- / 93.959
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic	- / 3.994	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.075	- / 16.069
Subtotal: Non-Recurring	- / 3.994	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.075	- / 16.069
Subtotal: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)	55 / 151.244	8 / 1.726	27 / 5.227	41 / 6.149	- / -	41 / 6.149	56 / 7.459	24 / 7.729	26 / 7.898	15 / 8.181	128 / 66.301	380 / 261.914

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Models of Systems Affected: CARGO TRANSPORT AC SERIES	Modification Type: SAFETY/RELIABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Procurement, All Modification Items</i>	- / 151.244	- / 1.726	- / 5.227	- / 6.149	- / -	- / 6.149	- / 7.459	- / 7.729	- / 7.898	- / 8.181	- / 66.301	- / 261.914
Support (All Modification Items)												
3.1) Engineering Change Orders	- / 0.160	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.160
3.2) Data ⁽⁸⁾	- / 5.125	- / 0.155	- / 0.275	- / 0.232	- / -	- / 0.232	- / 0.238	- / 0.186	- / 0.136	- / 0.161	- / 2.633	- / 9.141
3.3) Training Equipment ⁽⁹⁾	- / 1.453	- / 0.150	- / 0.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.061	- / 3.839
3.4) Support Equipment	- / 0.566	- / 0.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.061	- / 1.687
3.5) ILS ⁽¹⁰⁾	- / 4.389	- / 0.032	- / 0.124	- / 0.130	- / -	- / 0.130	- / 0.135	- / 0.150	- / 0.100	- / 0.125	- / 2.243	- / 7.428
3.6) Other Support ⁽¹¹⁾	- / 10.398	- / 0.307	- / 0.615	- / 0.561	- / -	- / 0.561	- / 0.562	- / 0.560	- / 0.500	- / 0.600	- / 4.350	- / 18.453
<i>Subtotal: Support</i>	- / 22.091	- / 0.704	- / 1.189	- / 0.923	- / -	- / 0.923	- / 0.935	- / 0.896	- / 0.736	- / 0.886	- / 12.348	- / 40.708
Installation												
<i>Modification Item 1 of 1:</i> COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)	- / 3.196	- / 1.580	- / 2.300	- / 2.700	- / -	- / 2.700	- / 3.225	- / 1.450	- / 1.600	- / 1.400	- / 22.063	- / 39.514
<i>Subtotal: Installation</i>	- / 3.196	- / 1.580	- / 2.300	- / 2.700	- / -	- / 2.700	- / 3.225	- / 1.450	- / 1.600	- / 1.400	- / 22.063	- / 39.514
Total												
Total Cost (Procurement + Support + Installation)	176.531	4.010	8.716	9.772	-	9.772	11.619	10.075	10.234	10.467	100.712	342.136

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Manufacturer Information

Manufacturer Name: Various - C-40/C-9 Manufacturer Location: Various

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 1

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021

Manufacturer Name: M7 Aerospace UC-35 Manufacturer Location: San Antonio, TX

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 1

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017			Dec 2020
Delivery Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018			Jan 2021

Manufacturer Name: M7 Aerospace C-26 Manufacturer Location: San Antonio, TX

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 1

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Dec 2015					Dec 2020
Delivery Dates		Jan 2016					Jan 2021

Manufacturer Name: Gulfstream-C-20 Manufacturer Location: Savannah, GA

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 2

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Dec 2015	Dec 2016	Dec 2017			Dec 2020
Delivery Dates		Feb 2016	Feb 2017	Feb 2018			Feb 2021

Manufacturer Name: Gulfstream-C-37 Manufacturer Location: Savannah, GA

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Dec 2015		Dec 2017			Dec 2020
Delivery Dates		Mar 2016		Mar 2018			Mar 2021

Manufacturer Name: L-3 Vertex - C-12 Manufacturer Location: Madison, Mississippi

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 1

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Manufacturer Information							
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015		Dec 2017			Dec 2020
Delivery Dates	Jan 2015	Jan 2016		Jan 2018			Jan 2021

Installation Information

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-26

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	14 / 1.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	14 / 1.650
FY 2015	- / -	1 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.200
FY 2016	- / -	- / -	3 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.600
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.325	- / -	1 / 0.325
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.280	15 / 2.280
Total	14 / 1.650	1 / 0.200	3 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.325	15 / 2.280	34 / 5.055

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	14	-	-	1	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	15	34
Out	14	-	-	1	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	15	34

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-40A/C-9

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	12 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	12 / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Installation Information

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-40A/C-9

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	3 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.600
FY 2017	- / -	- / -	- / -	7 / 1.400	- / -	7 / 1.400	- / -	- / -	- / -	- / -	- / -	7 / 1.400
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.800	- / -	- / -	- / -	- / -	4 / 0.800
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.450	- / -	- / -	- / 0.367	12 / 1.817
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 1.600	- / -	- / -	13 / 1.600
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.250	- / -	2 / 0.250
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / -	18 / -
Total	12 / 0.000	- / -	3 / 0.600	7 / 1.400	- / -	7 / 1.400	4 / 0.800	12 / 1.450	13 / 1.600	2 / 0.250	18 / 0.367	71 / 6.467

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	12	-	-	-	-	-	1	1	1	-	3	2	2	-	1	2	1	-	4	4	4	-	5	5	3	-	1	1	-	18	71
Out	12	-	-	-	-	-	1	1	1	-	3	2	2	-	1	2	1	-	4	4	4	-	5	5	3	-	1	1	-	18	71

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-37

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / 1.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	1 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.100
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.225	- / -	- / -	- / -	- / -	4 / 0.225
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.125	- / -	1 / 0.125

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Installation Information

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-37

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.180	9 / 2.180
Total	1 / 1.000	- / -	1 / 0.100	- / -	- / -	- / -	4 / 0.225	- / -	- / -	1 / 0.125	9 / 2.180	16 / 3.630

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	2	1	-	-	-	-	-	-	-	-	-	-	1	-	9	16
Out	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	2	1	-	-	-	-	-	-	-	-	-	-	1	-	9	16

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM UC-35

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	22 / 0.305	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	22 / 0.305
FY 2015	- / -	2 / 0.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.480
FY 2016	- / -	- / -	1 / 0.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.250
FY 2017	- / -	- / -	- / -	2 / 0.300	- / -	2 / 0.300	- / -	- / -	- / -	- / -	- / -	2 / 0.300
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	8 / 1.200	- / -	- / -	- / -	- / -	8 / 1.200
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.125	- / -	1 / 0.125
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 14.836	11 / 14.836
Total	22 / 0.305	2 / 0.480	1 / 0.250	2 / 0.300	- / -	2 / 0.300	8 / 1.200	- / -	- / -	1 / 0.125	11 / 14.836	47 / 17.496

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series
		Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Installation Information

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM UC-35

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	22	-	1	1	-	-	-	1	-	-	-	1	1	-	-	4	2	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	11	47
Out	22	-	1	1	-	-	-	1	-	-	-	1	1	-	-	4	2	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	11	47

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-20

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	5 / 0.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.550
FY 2017	- / -	- / -	- / -	7 / 1.000	- / -	7 / 1.000	- / -	- / -	- / -	- / -	- / -	7 / 1.000
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.500	- / -	- / -	- / -	- / -	5 / 0.500
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.125	- / -	1 / 0.125
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.450	3 / 0.450
Total	- / -	- / -	5 / 0.550	7 / 1.000	- / -	7 / 1.000	5 / 0.500	- / -	- / -	1 / 0.125	3 / 0.450	21 / 2.625

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	-	-	2	2	1	-	2	3	2	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	21
Out	-	-	-	-	-	-	2	2	1	-	2	3	2	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	21

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Modification Item 1 of 1: COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

Installation Information

Method of Implementation: Depot Contractor:: Installation Name: CNS/ATM C-12

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	3 / 0.241	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	3 / 0.241
FY 2015	- / -	5 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.900
FY 2016	- / -	- / -	4 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.200
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.500	- / -	- / -	- / -	- / -	10 / 0.500
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.450	- / -	2 / 0.450
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 1.950	21 / 1.950
Total	3 / 0.241	5 / 0.900	4 / 0.200	- / -	- / -	- / -	10 / 0.500	- / -	- / -	2 / 0.450	21 / 1.950	45 / 4.241

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	3	-	-	-	5	-	1	2	1	-	-	-	-	-	5	4	1	-	-	-	-	-	-	-	-	-	1	1	-	21	45
Out	3	-	-	-	5	-	1	2	1	-	-	-	-	-	5	4	1	-	-	-	-	-	-	-	-	-	1	1	-	21	45

Method of Implementation (Organic): Block 3 - Not Installed

Installation Quantity: 146

Footnotes:

- (1) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost is not based on the inflation factor. It is based on the complexity of the block upgrade requirements anticipated in the mandate which will be more complex and costly to install depending upon the aircraft configuration.
- (2) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost is not based on inflation factor. It is based on the complexity of the block upgrade requirements anticipated in the mandate which will be more complex and costly to install depending upon the aircraft configuration.
- (3) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost is not based on the inflation factor. It is based on the complexity of the block upgrade requirements anticipated in the mandate which will be more complex and costly to install depending upon the aircraft configuration.
- (4) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost is not based on the inflation factor. It is based on the complexity of the block upgrade requirements anticipated in the mandate which will be more complex and costly to install depending upon the aircraft configuration.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT RESERVE FORCES (OSIP 012-04)

- (5) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost is not based on the inflation factor. It is based on the complexity of the block upgrade requirements anticipated in the mandate which will be more complex and costly to install depending upon the aircraft configuration.
- (6) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost is not based on the inflation factor. It is based on the complexity of the block upgrade requirements anticipated in the mandate which will be more complex and costly to install depending upon the aircraft configuration.
- (7) The kit cost and installations are based on the mandates that are required each year for each aircraft. The kit cost is not based on the inflation factor. It is based on the complexity of the block upgrade requirements anticipated in the mandate which will be more complex and costly to install depending upon the aircraft configuration.
- (8) FY16-FY19 spike due to cost associated with Communication, Navigation and Surveillance/Air Traffic Management (CNS/ATM) FAA Mandates.
- (9) The training equipment cost are based on the mandates that are required each year for each aircraft. The training equipment cost is not based on the inflation factor. It is based on the complexity of the block upgrade requirements anticipated in the mandate which will be more complex and costly to install depending upon the aircraft configuration.
- (10) FY16-FY19 spike due to cost associated with Communication, Navigation and Surveillance/Air Traffic Management (CNS/ATM) FAA Mandates.
- (11) FY16-FY17 spike due to cost associated with Communication, Navigation and Surveillance/Air Traffic Management (CNS/ATM) FAA Mandates.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series				Modification Number / Title: 3 / Safety/Obsolescence Upgrades (013-16)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	0.175	0.025	-	0.025	0.025	0.025	0.025	-	-	0.275
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	0.175	0.025	-	0.025	0.025	0.025	0.025	-	-	0.275
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	0.175	0.025	-	0.025	0.025	0.025	0.025	-	-	0.275
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the following cargo and transport airlift aircraft: C-9B, C-40A, C-20D/G, C-37A/B, UC-35C/D, C-26D, EC-26D, RC-26D, TC-12B, UC-12B/F/M/W, RC-12M. To ensure preservation of the airlift capabilities world-wide, this Safety, Reliability and Obsolescence Improvement OSIP provides funding to correct deficiencies that adversely affect aircraft safety, reliability and/or availability; specifically deficiencies that are not corrected through the existing FAA commercial service bulletin process because they are peculiar systems/equipment to the Navy. Navy peculiar aircraft systems include but are not limited to navigation systems, communication, survivability equipment, and cargo/passenger loading and carriage systems.

Modifications will support all readiness, obsolescent, and safety of flight improvements to existing Navy peculiar aircraft systems.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 3 / Safety/Obsolescence Upgrades (013-16)

Models of Systems Affected: CARGO TRANSPORT AC SERIES	Modification Type: SAFETY/RELIABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: Safety/Obsolescence Upgrades (013-16)												
A Kits												
Recurring												
1.1.1) AirStair - Organic	- / -	- / -	1 / 0.025	1 / 0.025	- / -	1 / 0.025	1 / 0.025	1 / 0.025	1 / 0.025	- / -	- / -	5 / 0.125
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / -	- / 0.125
Non-Recurring												
1.2.1) A Kit Non-Recurring - Organic	- / -	- / -	- / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.150
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.150
<i>Subtotal: Safety/Obsolescence Upgrades (013-16)</i>	- / -	- / -	1 / 0.175	1 / 0.025	- / -	1 / 0.025	1 / 0.025	1 / 0.025	1 / 0.025	- / -	- / -	5 / 0.275
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 0.175	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / 0.025	- / -	- / -	- / 0.275

Installation

<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
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Total

Total Cost (Procurement + Support + Installation)	0.000	-	0.175	0.025	-	0.025	0.025	0.025	0.025	-	-	0.275
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 3 / Safety/Obsolescence Upgrades (013-16)

Modification Item 1 of 1: Safety/Obsolescence Upgrades (013-16)

Installation Information

Method of Implementation (Organic): AirStair - Not Installed	Installation Quantity: 5
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Empty table area for detailed installation information.

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 4 / RESERVE FORCES Inactive OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	75.818	-	-	-	-	-	-	-	-	-	-	75.818
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	75.818	-	-	-	-	-	-	-	-	-	-	75.818
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	75.818	-	-	-	-	-	-	-	-	-	-	75.818

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series					Modification Number / Title: 4 / RESERVE FORCES Inactive OSIPs			
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: N/A</i>													
<i>Subtotal: N/A</i>													
<i>Subtotal: Procurement, All Modification Items</i>													
Support (All Modification Items)													
<i>3.1) Inactive OSIPs</i>													
<i>Subtotal: Support</i>													
Installation													
<i>Subtotal: Installation</i>													
Total													
Total Cost (Procurement + Support + Installation)													

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 4 / RESERVE FORCES Inactive OSIPs
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Modification Item 1 of 1: N/A

Manufacturer Information

Manufacturer Name: N/A	Manufacturer Location: N/A
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Administrative Leadtime (<i>in Months</i>):	Production Leadtime (<i>in Months</i>):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Support Only Installation	Installation Quantity: 0
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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0564 / E-6 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0101402N
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	929.307	206.127	178.987	222.077	-	222.077	223.387	225.241	146.366	149.980	262.529	2,544.001
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	929.307	206.127	178.987	222.077	-	222.077	223.387	225.241	146.366	149.980	262.529	2,544.001
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	929.307	206.127	178.987	222.077	-	222.077	223.387	225.241	146.366	149.980	262.529	2,544.001

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the E-6 Mercury aircraft to improve mission capability and readiness. All sixteen (16) aircraft in the E-6 fleet will receive each modification. The E-6 is a manned airborne communications platform designed to provide a survivable, enduring, and reliable airborne Command and Control Communications capability in support of the President, Secretary of Defense and United States strategic and non-strategic forces. Safety Deficiencies (OSIP 008-02) corrects high risk aircraft safety hazards to protect personnel and equipment enabling mission readiness. Tech Insertion (OSIP 003-04) corrects aircraft obsolescence, supportability, weight management and interoperability deficiencies through new technology insertion enabling mission readiness and mandate compliance. Service Life Extension Program (OSIP 003-07) extends the service life of the aircraft to 2040+ through airframe strengthening and structural data recording and analysis. Communications Upgrade (OSIP 012-07) installs expanded aircraft communication bandwidth capability required to improve airborne command post operations and integrates commercial wideband Satellite Communication (SATCOM) capability. Block I (OSIP 008-10) corrects Airborne Command Post (ABNCP) operational test deficiencies to improve mission capability, readiness and legacy system obsolescence. Multi-Role Tactical Common Data Link (OSIP 013-10) installs expanded aircraft communication bandwidth capability required to interoperate with United States Strategic Command's National Command and Control Architecture. Auxiliary Power Unit (APU) (OSIP 002-12) corrects airborne command post operational test deficiencies by installing an improved APU to meet increased aircraft power requirements. Family of Advanced Beyond-Line-of-Sight Terminals/Presidential and National Voice Conferencing (FAB-T/PNVC) (OSIP 014-14) replaces obsolete Military Strategic Tactical Relay terminals with improved FAB-T and replaces Secure Emergency Conferencing Network with PNVC.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0564 / E-6 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0101402N

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Safety Deficiencies (OSIP 008-02) (TBD)			- / 76.680	- / 2.035	- / 3.070	- / 3.959	- / -	- / 3.959
P-3a	2 / Tech Insertion (OSIP 003-04) (TBD)			- / 105.721	- / 19.182	- / 7.529	- / 16.957	- / -	- / 16.957
P-3a	3 / Service Life Extension Program (SLEP) (OSIP 003-07) (TBD)			- / 87.929	- / 11.425	- / 15.537	- / 10.767	- / -	- / 10.767
P-3a	4 / Communications Upgrade (OSIP 012-07) (TBD)			- / 196.045	- / 24.492	- / 15.231	- / 38.090	- / -	- / 38.090
P-3a	5 / Block I (OSIP 008-10) (TBD)			- / 322.821	- / 77.422	- / 43.293	- / 55.488	- / -	- / 55.488
P-3a	6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10) (TBD)			- / 84.458	- / 41.489	- / 48.568	- / 35.849	- / -	- / 35.849
P-3a	7 / Auxiliary Power Unit (APU) (OSIP 002-12) (TBD)			- / 19.659	- / 4.900	- / 13.590	- / 23.875	- / -	- / 23.875
P-3a	8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14) (TBD)			- / 4.978	- / 25.182	- / 32.169	- / 37.092	- / -	- / 37.092
P-3a	9 / Inactive OSIPS (TBD)			- / 31.016	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 929.307	- / 206.127	- / 178.987	- / 222.077	- / -	- / 222.077

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Safety Deficiencies (OSIP 008-02) (TBD)			- / 5.220	- / 4.482	- / 3.992	- / 4.032	- / 1.623	- / 105.093
P-3a	2 / Tech Insertion (OSIP 003-04) (TBD)			- / 27.063	- / 63.229	- / 74.378	- / 98.531	- / 206.020	- / 618.610
P-3a	3 / Service Life Extension Program (SLEP) (OSIP 003-07) (TBD)			- / 6.709	- / 12.406	- / 13.168	- / 19.750	- / 24.514	- / 202.205
P-3a	4 / Communications Upgrade (OSIP 012-07) (TBD)			- / 43.415	- / 66.755	- / 30.990	- / 27.667	- / 30.372	- / 473.057
P-3a	5 / Block I (OSIP 008-10) (TBD)			- / 28.233	- / 6.382	- / 0.804	- / -	- / -	- / 534.443
P-3a	6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10) (TBD)			- / 41.540	- / 25.834	- / 9.200	- / -	- / -	- / 286.938
P-3a	7 / Auxiliary Power Unit (APU) (OSIP 002-12) (TBD)			- / 26.117	- / 18.434	- / 5.301	- / -	- / -	- / 111.876
P-3a	8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14) (TBD)			- / 45.090	- / 27.719	- / 8.533	- / -	- / -	- / 180.763
P-3a	9 / Inactive OSIPS (TBD)			- / -	- / -	- / -	- / -	- / -	- / 31.016
P-40	Total Gross/Weapon System Cost			- / 223.387	- / 225.241	- / 146.366	- / 149.980	- / 262.529	- / 2,544.001

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	76.680	2.035	3.070	3.959	-	3.959	5.220	4.482	3.992	4.032	1.623	105.093
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	76.680	2.035	3.070	3.959	-	3.959	5.220	4.482	3.992	4.032	1.623	105.093
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	76.680	2.035	3.070	3.959	-	3.959	5.220	4.482	3.992	4.032	1.623	105.093

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Safety Deficiencies corrects high risk aircraft safety hazards to protect personnel and equipment enabling mission readiness. Federal agency directives, aging aircraft material condition, and the operational environment generate safety hazards for correction. Modifications include, but not limited to: Fuel Quantity Indicating System (FQIS) installation; Kapton wiring replacement; and other safety deficiencies that require correction; i.e. Crash Survivable Flight Incident Recorder System (CFIRS) Phase I.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FQIS Non-Recurring Engineering (NRE) completed in FY10 with production kit buys in PY-FY17 and installations in FY11-FY19; Aircraft Kapton Wire kit buys and installs in FY13-FY21. Kapton Radome, Wings, Engine Struts efforts are a subset of KAPTON 1A listed in previous budget cycles and have been broken out. B Kits for FQIS not listed in previous budgets.

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Exhibit P-3a, Individual Modification: PB 2017 Navy								Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)					
Models of Systems Affected: E-6 Series				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Safety Deficiencies (OSIP 008-02)</i>													
A Kits													
Recurring													
1.1.1) KAPTON Wings - NonOrganic ⁽¹⁾	2 / 0.358	- / -	2 / 0.374	2 / 0.382	- / -	2 / 0.382	2 / 0.389	2 / 0.397	2 / 0.405	2 / 0.413	2 / 0.421	16 / 3.139	
1.1.2) Kapton Engine Struts - NonOrganic ⁽²⁾	1 / 0.232	- / -	2 / 0.248	2 / 0.264	- / -	2 / 0.264	2 / 0.279	2 / 0.296	2 / 0.314	2 / 0.329	3 / 0.526	16 / 2.488	
1.1.3) Kapton Radome - Organic ⁽³⁾	- / -	- / -	2 / 0.242	5 / 0.623	- / -	5 / 0.623	6 / 0.770	2 / 0.264	1 / 0.136	- / -	- / -	16 / 2.035	
1.1.4) FQIS Kit - Organic ⁽⁴⁾	9 / 0.230	- / -	4 / 0.104	3 / 0.082	- / -	3 / 0.082	- / -	- / -	- / -	- / -	- / -	16 / 0.416	
1.1.5) Archived ECPs - Organic	112 / 17.655	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 17.655	
<i>Subtotal: Recurring</i>	<i>- / 18.475</i>	<i>- / -</i>	<i>- / 0.968</i>	<i>- / 1.351</i>	<i>- / -</i>	<i>- / 1.351</i>	<i>- / 1.438</i>	<i>- / 0.957</i>	<i>- / 0.855</i>	<i>- / 0.742</i>	<i>- / 0.947</i>	<i>- / 25.733</i>	
Non-Recurring													
1.2.1) Installation Kits N/R - NonOrganic	- / 23.509	- / 0.983	- / -	- / 0.233	- / -	- / 0.233	- / 1.981	- / 1.680	- / 1.333	- / 1.446	- / -	- / 31.165	
<i>Subtotal: Non-Recurring</i>	<i>- / 23.509</i>	<i>- / 0.983</i>	<i>- / -</i>	<i>- / 0.233</i>	<i>- / -</i>	<i>- / 0.233</i>	<i>- / 1.981</i>	<i>- / 1.680</i>	<i>- / 1.333</i>	<i>- / 1.446</i>	<i>- / -</i>	<i>- / 31.165</i>	
B Kits													
Recurring													
2.1.1) FQIS B kits - NonOrganic ⁽⁵⁾	3 / 0.010	- / -	5 / 0.018	6 / 0.022	- / -	6 / 0.022	1 / 0.004	1 / 0.004	- / -	- / -	- / -	16 / 0.058	
2.1.2) Archived ECPs - Organic	188 / 7.106	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	188 / 7.106	
<i>Subtotal: Recurring</i>	<i>- / 7.116</i>	<i>- / -</i>	<i>- / 0.018</i>	<i>- / 0.022</i>	<i>- / -</i>	<i>- / 0.022</i>	<i>- / 0.004</i>	<i>- / 0.004</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 7.164</i>	
Non-Recurring													
2.2.1) Installation Equipment N/R - NonOrganic	- / 3.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.122	
<i>Subtotal: Non-Recurring</i>	<i>- / 3.122</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 3.122</i>	
<i>Subtotal: Safety Deficiencies (OSIP 008-02)</i>	<i>315 / 52.222</i>	<i>- / 0.983</i>	<i>15 / 0.986</i>	<i>18 / 1.606</i>	<i>- / -</i>	<i>18 / 1.606</i>	<i>11 / 3.423</i>	<i>7 / 2.641</i>	<i>5 / 2.188</i>	<i>4 / 2.188</i>	<i>5 / 0.947</i>	<i>380 / 67.184</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 52.222</i>	<i>- / 0.983</i>	<i>- / 0.986</i>	<i>- / 1.606</i>	<i>- / -</i>	<i>- / 1.606</i>	<i>- / 3.423</i>	<i>- / 2.641</i>	<i>- / 2.188</i>	<i>- / 2.188</i>	<i>- / 0.947</i>	<i>- / 67.184</i>	
Support (All Modification Items)													
3.2) Data	- / 0.699	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.699	
3.3) Training ⁽⁶⁾	9 / 3.937	- / -	3 / 0.389	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 4.326	
3.4) Support Equipment	- / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.045	
3.5) ILS	- / 0.466	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.466	
3.6) Other Support ⁽⁷⁾	- / 17.875	- / 1.052	- / 1.063	- / 1.421	- / -	- / 1.421	- / 1.449	- / 1.477	- / 1.504	- / 1.529	- / -	- / 27.370	
<i>Subtotal: Support</i>	<i>- / 23.022</i>	<i>- / 1.052</i>	<i>- / 1.452</i>	<i>- / 1.421</i>	<i>- / -</i>	<i>- / 1.421</i>	<i>- / 1.449</i>	<i>- / 1.477</i>	<i>- / 1.504</i>	<i>- / 1.529</i>	<i>- / -</i>	<i>- / 32.906</i>	
Installation													

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series						Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)		
Models of Systems Affected: E-6 Series				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
<i>Modification Item 1 of 1: Safety Deficiencies (OSIP 008-02)</i>	- / 1.436	- / -	- / 0.632	- / 0.932	- / -	- / 0.932	- / 0.348	- / 0.364	- / 0.300	- / 0.315	- / 0.676	- / 5.003
<i>Subtotal: Installation</i>	- / 1.436	- / -	- / 0.632	- / 0.932	- / -	- / 0.932	- / 0.348	- / 0.364	- / 0.300	- / 0.315	- / 0.676	- / 5.003
Total												
Total Cost (Procurement + Support + Installation)	76.680	2.035	3.070	3.959	-	3.959	5.220	4.482	3.992	4.032	1.623	105.093

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)

Modification Item 1 of 1: Safety Deficiencies (OSIP 008-02)

Manufacturer Information

Manufacturer Name: Kapton Wings/Grace Electronics Manufacturer Location: Hollbrook, NY

Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates		Jul 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021

Manufacturer Name: FQIS/DOE Manufacturer Location: Kansas City, MO

Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Dec 2015	Jan 2017	Jan 2018	Jan 2019		
Delivery Dates		Jun 2016	Jul 2017	Jul 2018	Jul 2019		

Manufacturer Name: Training Equipment/Grace Electronics Manufacturer Location: Hollbrook, NY

Administrative Leadtime (in Months): 9 Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jun 2016					
Delivery Dates		Jun 2017					

Manufacturer Name: Kapton Engine Struts/Special Communications Rapid Integration Facility Manufacturer Location: St. Inigoes, MD

Administrative Leadtime (in Months): 12 Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021
Delivery Dates		Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022

Installation Information

Method of Implementation: Drive In:: Installation Name: KAPTON Wings

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	2 / 0.062	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	2 / 0.062
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	1 / 0.123	1 / 0.065	- / -	1 / 0.065	- / -	- / -	- / -	- / -	- / -	2 / 0.188
FY 2017	- / -	- / -	- / -	1 / 0.065	- / -	1 / 0.065	1 / 0.067	- / -	- / -	- / -	- / -	2 / 0.132
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.067	1 / 0.072	- / -	- / -	- / -	2 / 0.139
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.072	1 / 0.075	- / -	- / -	2 / 0.147

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)

Modification Item 1 of 1: Safety Deficiencies (OSIP 008-02)

Installation Information

Method of Implementation: Drive In:: Installation Name: KAPTON Wings

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.075	1 / 0.079	- / -	2 / 0.154
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.079	1 / 0.081	2 / 0.160
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.162	2 / 0.162
Total	- / -	- / -	3 / 0.185	2 / 0.130	- / -	2 / 0.130	2 / 0.134	2 / 0.144	2 / 0.150	2 / 0.158	3 / 0.243	16 / 1.144

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	1	1	-	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	3	16
Out	-	-	-	-	-	-	-	1	1	1	-	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	4	16

Method of Implementation: [none specified]:: Installation Name: Kapton Engine Struts

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	1 / 0.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / 0.064
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	2 / 0.130	- / -	2 / 0.130	- / -	- / -	- / -	- / -	- / -	2 / 0.130
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.135	- / -	- / -	- / -	- / -	2 / 0.135
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.140	- / -	- / -	- / -	2 / 0.140
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.150	- / -	- / -	2 / 0.150
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.157	- / -	2 / 0.157
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.173	2 / 0.173
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.260	3 / 0.260
Total	- / -	- / -	1 / 0.064	2 / 0.130	- / -	2 / 0.130	2 / 0.135	2 / 0.140	2 / 0.150	2 / 0.157	5 / 0.433	16 / 1.209

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)

Modification Item 1 of 1: Safety Deficiencies (OSIP 008-02)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Kapton Engine Struts

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	5	16
Out	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	6	16

Method of Implementation: [none specified]:: Installation Name: FQIS B kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	3 / 0.223	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	3 / 0.223
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	5 / 0.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.383
FY 2017	- / -	- / -	- / -	6 / 0.468	- / -	6 / 0.468	- / -	- / -	- / -	- / -	- / -	6 / 0.468
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.079	- / -	- / -	- / -	- / -	1 / 0.079
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.080	- / -	- / -	- / -	1 / 0.080
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3 / 0.223	- / -	5 / 0.383	6 / 0.468	- / -	6 / 0.468	1 / 0.079	1 / 0.080	- / -	- / -	- / -	16 / 1.233

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	3	-	-	-	-	-	-	1	4	-	-	3	3	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	16
Out	3	-	-	-	-	-	-	-	-	1	2	4	2	1	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	16

Method of Implementation: Drive In:: Installation Name: Training

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	9 / 1.213	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	9 / 1.213
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)

Modification Item 1 of 1: Safety Deficiencies (OSIP 008-02)

Installation Information

Method of Implementation: Drive In:: Installation Name: Training

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	3 / 0.204	- / -	3 / 0.204	- / -	- / -	- / -	- / -	- / -	3 / 0.204
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	9 / 1.213	- / -	- / -	3 / 0.204	- / -	3 / 0.204	- / -	- / -	- / -	- / -	- / -	12 / 1.417

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	9	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Out	9	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12

Method of Implementation (Organic): Kapton Radome **Installation Quantity:** 16

Method of Implementation (Organic): FQIS Kit **Installation Quantity:** 16

Method of Implementation (Organic): Archived ECPs **Installation Quantity:** 112

Method of Implementation (Organic): Archived ECPs **Installation Quantity:** 188

Footnotes:

- (1) Kapton Wings efforts are a subset of KAPTON 1A listed in previous budget cycles and has been broken out.
- (2) Kapton Engine Struts efforts are a subset of KAPTON 1A listed in previous budget cycles and has been broken out.
- (3) Kapton Radome efforts are a subset of KAPTON 1A listed in previous budget cycles and has been broken out. Installation will occur as part of MR-TCDL (OSIP 013-10).
- (4) Prior year FQIS kit unit rates were decreased. FY15 decreased units due to installation schedule slide. FY16-17 increased units due to installation schedule slide. Installation PY, FY16-19 increase in unit rate. FY16-19 increased units installed due to decreased units installed in previous years.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)

⁽⁵⁾ B Kits for FQIS not listed in previous budgets. Installation unit rates have changed from PB16.

⁽⁶⁾ FY16 Training equipment includes FQIS trainers. Installation: 11 trainers were reflected in PB16, but only 9 were purchased and installed. The delta of 2 trainers from PB16 were moved to FY16 for purchase and FY17 for installation. The one trainer scheduled for in FY15 was moved to FY16 for procurement and FY17 for installation.

⁽⁷⁾ Other Support cost in FY15-FY21 is for continued support of emergent aircraft safety hazards to enable mission readiness.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	105.721	19.182	7.529	16.957	-	16.957	27.063	63.229	74.378	98.531	206.020	618.610
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	105.721	19.182	7.529	16.957	-	16.957	27.063	63.229	74.378	98.531	206.020	618.610
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	105.721	19.182	7.529	16.957	-	16.957	27.063	63.229	74.378	98.531	206.020	618.610
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Tech Insertion corrects aircraft obsolescence, supportability, weight management and interoperability deficiencies through new technology insertion enabling mission readiness and mandate compliance. Unsupportable computing technology, communication systems, interoperability gaps, and the need to maintain aircraft range and endurance through weight reduction generates mission critical modification requirements. Modifications include, but not limited to: CRYPTO Modernization; Brakes; Seats; Glare Shield; High Power Transmit Set (HPTS) Camera; Automated Dependent Surveillance Broadcast (ADS-B OUT); High Frequency Automatic Link Establishment (HF-ALE); Communication Navigation and Surveillance Air Traffic Management (CNS/ATM); Airborne Launch Control System (ALCS); Missions Operation Monitor (MOM); Aircraft Electrical System; Mission Suite Upgrade; and other tech insertion corrections.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: CRYPTO Modernization Non-Recurring Engineering (NRE) FY11-FY12; production kit buys in FY12-FY13 with installs in FY13-FY14. Brakes NRE kit installed in FY13; production install kit buys in FY12-FY14 with installs in FY15-FY17. Seats NRE in FY13; with NRE kit buy in FY14 and installation in FY17; production install kit buys in FY14-FY15 and installation in FY17 and FY18. Glare Shield NRE kit buys in FY14 with production kit buys and installation in FY14-FY16. HPTS Camera NRE FY14; NRE kit buy in FY15; production kit buys in FY15-FY16 and installs in FY15-FY16. ADS-B Out NRE kit buy FY16; production kit buys and installation funded by another program. HF-ALE and CNS/ATM system NRE in FY17. HF-ALE and CNS/ATM NRE Kit buy FY18; production kit buys and installs FY19 to beyond FYDP. ALCS NRE FY20; production kit buys FY21 to beyond FYDP and installs FY21 to beyond FYDP. MOM NRE Kit buy FY20; production kit buys and installs beyond FYDP. Aircraft Electrical NRE kit buy FY20; FY21 production kit buys and installs beyond FYDP. Mission Suite Upgrade NRE in FY21 to beyond FYDP; kit buys and installs beyond FYDP.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)			
Models of Systems Affected: E-6 Series					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Tech Insertion (OSIP 003-04)</i>													
A Kits													
Recurring													
1.1.2) CARBON BRAKES - NonOrganic ⁽⁸⁾	16 / 6.306	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 6.306	
1.1.3) SEATS - NonOrganic ⁽⁹⁾	4 / 2.020	12 / 6.860	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 8.880	
1.1.4) GLARESHIELD - NonOrganic	7 / 0.021	6 / 0.018	3 / 0.009	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.048	
1.1.5) HPTS Camera - NonOrganic ⁽¹⁰⁾	- / -	8 / 0.048	8 / 0.048	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.096	
1.1.6) ADS-B OUT - Organic	- / -	- / -	1 / 0.015	10 / 0.153	- / -	10 / 0.153	5 / 0.078	- / -	- / -	- / -	- / -	16 / 0.246	
1.1.7) HF ALE - NonOrganic ⁽¹¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.356	4 / 1.452	4 / 1.478	4 / 1.505	3 / 1.149	16 / 5.940	
1.1.8) CNS/ATM - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.376	4 / 1.532	4 / 1.559	4 / 1.587	3 / 1.212	16 / 6.266	
1.1.9) ALCS - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.129	6 / 0.790	9 / 1.198	16 / 2.117	
1.1.10) MOM - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.259	6 / 1.582	9 / 2.415	16 / 4.256	
1.1.11) AC ELECTRICAL - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.363	3 / 1.089	12 / 4.434	16 / 5.886	
1.1.12) Mission Suite Upgrade - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 9.344	16 / 9.344	
1.1.14) Archived ECPs - Organic	95 / 2.984	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	95 / 2.984	
1.1.15) PY Installs - Organic	94 / 3.614	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	94 / 3.614	
Subtotal: Recurring	- / 14.945	- / 6.926	- / 0.072	- / 0.153	- / -	- / 0.153	- / 0.810	- / 2.984	- / 3.788	- / 6.553	- / 19.752	- / 55.983	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽¹²⁾	- / 27.081	- / 7.759	- / 3.850	- / 6.860	- / -	- / 6.860	- / 10.175	- / 21.209	- / 17.454	- / 23.885	- / -	- / 118.273	
Subtotal: Non-Recurring	- / 27.081	- / 7.759	- / 3.850	- / 6.860	- / -	- / 6.860	- / 10.175	- / 21.209	- / 17.454	- / 23.885	- / -	- / 118.273	
B Kits													
Recurring													
2.1.2) HPTS Camera - Organic	- / -	8 / 0.048	8 / 0.048	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.096	
2.1.3) ADS-B OUT - Organic	- / -	- / -	1 / 0.010	10 / 0.102	- / -	10 / 0.102	5 / 0.052	- / -	- / -	- / -	- / -	16 / 0.164	
2.1.4) HF ALE - Organic ⁽¹³⁾	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.362	4 / 5.546	4 / 5.646	4 / 5.748	3 / 4.389	16 / 22.691	
2.1.5) CNS/ATM - Organic ⁽¹⁴⁾	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.437	4 / 5.853	4 / 5.959	4 / 6.064	3 / 4.631	16 / 23.944	
2.1.6) ALCS - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.316	6 / 1.927	9 / 2.943	16 / 5.186	
2.1.7) MOM - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.859	6 / 12.979	9 / 26.657	16 / 42.495	
2.1.8) AC ELECTRICAL - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.824	3 / 7.222	12 / 46.714	16 / 57.760	
2.1.9) Mission Suite Upgrade - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 20.000	16 / 20.000	
2.1.11) Archived ECPs - Organic	144 / 14.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 14.505	
Subtotal: Recurring	- / 14.505	- / 0.048	- / 0.058	- / 0.102	- / -	- / 0.102	- / 2.851	- / 11.399	- / 18.604	- / 33.940	- / 105.334	- / 186.841	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)		
Models of Systems Affected: E-6 Series				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic	- / 3.468	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.468
<i>Subtotal: Non-Recurring</i>	- / 3.468	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.468
<i>Subtotal: Tech Insertion (OSIP 003-04)</i>	360 / 59.999	34 / 14.733	21 / 3.980	20 / 7.115	- / -	20 / 7.115	14 / 13.836	16 / 35.592	22 / 39.846	46 / 64.378	104 / 125.086	637 / 364.565
<i>Subtotal: Procurement, All Modification Items</i>	- / 59.999	- / 14.733	- / 3.980	- / 7.115	- / -	- / 7.115	- / 13.836	- / 35.592	- / 39.846	- / 64.378	- / 125.086	- / 364.565
Support (All Modification Items)												
3.2) Data ⁽¹⁵⁾	- / 0.221	- / 0.009	- / 0.329	- / 0.822	- / -	- / 0.822	- / 1.192	- / 1.114	- / 1.387	- / 0.156	- / -	- / 5.230
3.3) Training ⁽¹⁶⁾	- / 3.711	- / 0.040	- / 0.382	- / 4.288	- / -	- / 4.288	- / 8.489	- / 20.752	- / 16.958	- / 8.611	- / 1.887	- / 65.118
3.5) ILS ⁽¹⁷⁾	- / 0.168	- / 0.088	- / 0.126	- / 2.315	- / -	- / 2.315	- / 1.500	- / 1.500	- / 1.423	- / -	- / -	- / 7.120
3.6) Other Support ⁽¹⁸⁾	- / 41.311	- / 3.361	- / 1.743	- / 1.778	- / -	- / 1.778	- / 1.813	- / 1.849	- / 1.887	- / 1.924	- / 1.964	- / 57.630
<i>Subtotal: Support</i>	- / 45.411	- / 3.498	- / 2.580	- / 9.203	- / -	- / 9.203	- / 12.994	- / 25.215	- / 21.655	- / 10.691	- / 3.851	- / 135.098
Installation												
<i>Modification Item 1 of 1: Tech Insertion (OSIP 003-04)</i>	- / 0.311	- / 0.951	- / 0.969	- / 0.639	- / -	- / 0.639	- / 0.233	- / 2.422	- / 12.877	- / 23.462	- / 77.083	- / 118.947
<i>Subtotal: Installation</i>	- / 0.311	- / 0.951	- / 0.969	- / 0.639	- / -	- / 0.639	- / 0.233	- / 2.422	- / 12.877	- / 23.462	- / 77.083	- / 118.947
Total												
Total Cost (Procurement + Support + Installation)	105.721	19.182	7.529	16.957	-	16.957	27.063	63.229	74.378	98.531	206.020	618.610

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy						Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0564 / E-6 Series			Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)	
Modification Item 1 of 1: Tech Insertion (OSIP 003-04)							
Manufacturer Information							
Manufacturer Name: Seats/United Technology Corporation-Aerospace Systems				Manufacturer Location: Colorado Springs, CO			
Administrative Leadtime (in Months): 32				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jul 2016						
Delivery Dates	Jul 2017						
Manufacturer Name: Glareshield				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Nov 2015					
Delivery Dates	Dec 2014	Jan 2016					
Manufacturer Name: HPTS Camera/TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015					
Delivery Dates	Dec 2015	Dec 2016					
Manufacturer Name: HF-ALE /TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates				Mar 2019	Mar 2020	Mar 2021	Mar 2022
Manufacturer Name: CNS/ATM /TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates				Mar 2019	Mar 2020	Mar 2021	Mar 2022
Manufacturer Name: ALCS / TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						Mar 2020	Mar 2021
Delivery Dates						Mar 2021	Mar 2022
Manufacturer Name: MOM / TBD				Manufacturer Location: TBD			

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)

Modification Item 1 of 1: Tech Insertion (OSIP 003-04)

Manufacturer Information

Administrative Leadtime (in Months): 2								Production Leadtime (in Months): 4																				
Dates	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
Contract Dates																					Nov 2019				Nov 2020			
Delivery Dates																					Mar 2020				Mar 2021			
Manufacturer Name: AC Electrical / TBD								Manufacturer Location: TBD																				
Administrative Leadtime (in Months): 2								Production Leadtime (in Months): 4																				
Dates	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
Contract Dates																					Nov 2019				Nov 2020			
Delivery Dates																					Mar 2020				Mar 2021			

Installation Information

Method of Implementation: Drive In:: Installation Name: CARBON BRAKES

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.223	6 / 0.855	6 / 0.870	3 / 0.443	- / 0.000	3 / 0.443	- / -	- / -	- / -	- / -	- / 0.000	16 / 2.391
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.223	6 / 0.855	6 / 0.870	3 / 0.443	- / -	3 / 0.443	- / -	- / -	- / -	- / -	- / -	16 / 2.391

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	1	-	2	2	2	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	1	-	2	2	2	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)

Modification Item 1 of 1: Tech Insertion (OSIP 003-04)

Installation Information

Method of Implementation: Drive In:: Installation Name: SEATS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	4 / 0.092	- / 0.000	4 / 0.092	- / -	- / -	- / -	- / -	- / 0.000	4 / 0.092
FY 2015	- / -	- / -	- / -	2 / 0.046	- / -	2 / 0.046	10 / 0.233	- / -	- / -	- / -	- / -	12 / 0.279
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	6 / 0.138	- / -	6 / 0.138	10 / 0.233	- / -	- / -	- / -	- / -	16 / 0.371

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	2	2	2	3	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	-	-	-	-	-	-	-	-	-	2	2	2	2	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	16

Method of Implementation: Drive In:: Installation Name: GLARESHIELD

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 0.088	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	7 / 0.088
FY 2015	- / -	6 / 0.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.096
FY 2016	- / -	- / -	3 / 0.051	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.051
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 0.088	6 / 0.096	3 / 0.051	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.235

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0564 / E-6 Series										Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)									

Modification Item 1 of 1: Tech Insertion (OSIP 003-04)

Installation Information

Method of Implementation: Drive In:: Installation Name: GLARESHIELD

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	7	2	2	2	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	7	-	2	2	2	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: Drive In:: Installation Name: HPTS Camera

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	8 / 0.048	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.048
FY 2016	- / -	- / -	- / -	8 / 0.058	- / -	8 / 0.058	- / -	- / -	- / -	- / -	- / -	8 / 0.058
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	8 / 0.048	8 / 0.058	- / -	8 / 0.058	- / -	- / -	- / -	- / -	- / -	16 / 0.106

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	2	2	2	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	2	2	2	4	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: [none specified]:: Installation Name: HF ALE

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)

Modification Item 1 of 1: Tech Insertion (OSIP 003-04)

Installation Information

Method of Implementation: [none specified]:: Installation Name: HF ALE

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.357	- / -	- / -	- / -	1 / 0.357
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.455	- / -	- / -	4 / 1.455
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.481	- / -	4 / 1.481
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.518	4 / 1.518
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.138	3 / 1.138
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.357	4 / 1.455	4 / 1.481	7 / 2.656	16 / 5.949

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	2	-	1	1	2	7	16	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	2	-	1	1	9	16	

Method of Implementation: [none specified]:: Installation Name: CNS/ATM

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.065	- / -	- / -	- / -	1 / 2.065
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 8.407	- / -	- / -	4 / 8.407
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 8.556	- / -	4 / 8.556
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 8.713	4 / 8.713
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 6.652	3 / 6.652
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.065	4 / 8.407	4 / 8.556	7 / 15.365	16 / 34.393

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)

Modification Item 1 of 1: Tech Insertion (OSIP 003-04)

Installation Information

Method of Implementation: [none specified]:: Installation Name: CNS/ATM

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1	1	-	2	1	1	7	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1	1	1	1	1	8	16

Method of Implementation: [none specified]:: Installation Name: ALCS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.114	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.696	6 / 0.696
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.062	9 / 1.062
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.114	15 / 1.758

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	15	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	15	16

Method of Implementation: [none specified]:: Installation Name: MOM

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)
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Modification Item 1 of 1: Tech Insertion (OSIP 003-04)

Installation Information

Method of Implementation: [none specified]:: Installation Name: MOM

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.345	- / -	- / -	1 / 1.345
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 8.211	- / -	6 / 8.211
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 12.543	9 / 12.543
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.345	6 / 8.211	9 / 12.543	16 / 22.099

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	2	2	9	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	2	11	16

Method of Implementation: [none specified]:: Installation Name: AC ELECTRICAL

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.670	- / -	- / -	1 / 1.670
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.100	- / -	3 / 5.100
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 20.761	12 / 20.761
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.670	3 / 5.100	12 / 20.761	16 / 27.531

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)

Modification Item 1 of 1: Tech Insertion (OSIP 003-04)

Installation Information

Method of Implementation: [none specified]:: Installation Name: AC ELECTRICAL

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	1	12	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	13	16

Method of Implementation: [none specified]:: Installation Name: Mission Suite Upgrade

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 24.000	16 / 24.000
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 24.000	16 / 24.000

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	16	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	16	

Method of Implementation (Organic): ADS-B OUT	Installation Quantity: 16
Method of Implementation (Organic): Mission Suite Upgrade	Installation Quantity: 16
Method of Implementation (Organic): Archived ECPs	Installation Quantity: 95

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)
<i>Modification Item 1 of 1:</i> Tech Insertion (OSIP 003-04)		
Installation Information		
Method of Implementation (Organic): PY Installs - Not Installed	Installation Quantity: 94	
Method of Implementation (Organic): HPTS Camera	Installation Quantity: 16	
Method of Implementation (Organic): ADS-B OUT	Installation Quantity: 16	
Method of Implementation (Organic): HF ALE	Installation Quantity: 16	
Method of Implementation (Organic): CNS/ATM	Installation Quantity: 16	
Method of Implementation (Organic): ALCS	Installation Quantity: 16	
Method of Implementation (Organic): MOM	Installation Quantity: 16	
Method of Implementation (Organic): AC ELECTRICAL	Installation Quantity: 16	
Method of Implementation (Organic): Archived ECPs	Installation Quantity: 144	

Footnotes:

- (8) Carbon Brakes PY kit costs decreased from PB16. FY15-16: Units installed increased from PB16 due to schedule slide.
- (9) SEATS: PY fewer units as Unit rate increased. FY15: More units purchased due to fewer units purchased in previous year. SEATS Installation FY15-FY16: Decrease in installation due to schedule slide. FY17-FY18: Units installed increased due to prior year's schedule slide.
- (10) Installation FY15 unit rate decrease.
- (11) HF-ALE A Kits FY17: No units procured due to installation slide to the right. FY18-FDYP reflects new installation schedule.
- (12) FY15: Installation Kits N/R in FY15 is to support the ADS-B Out effort. FY17-FY18: Installation Kits N/R in FY17-FY18 is to support the ALCS, HF-ALE and CNS/ATM efforts. FY19-FY21: Installation Kits N/R in FY19 is to support Aircraft electrical, MOM and ALCS mod. Installation Kits N/R in FY20 is to support Aircraft electrical and ALCS mod. Installation Kits N/R in FY21 is to support Aircraft electrical, and Mission Suite Upgrade.
- (13) HF-ALE B Kits FY17: No units procured due to installation slide to the right. FY18-FDYP reflects new installation schedule.
- (14) CNS/ATM: B kits, FY19 No units purchased due to installation slide to right. To Complete: More units purchased due to schedule slide from FY19.
- (15) Data cost in FY16 is for the data publications of HF-ALE, FY17 increase in HF ALE data prices. FY17 and FY18 costs for data publications are for CNS/ATM and ALCS, and in FY19 the costs are for data publications for the Aircraft Electrical system, MOM. FY20 and FY21 costs are for the Mission Suite Upgrade.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)
<p>⁽¹⁶⁾ Training Equipment cost in FY15 is for the HPTS Camera, in FY16 is for ADS-B Out and Brakes, in FY17 is for HF-ALE, in FY18 is for HF-ALE, CNS-ATM, in FY19 is for HF-ALE, CNS-ATM, Aircraft Electrical and ALCS, FY20 training costs are for ALCS, MOM and Aircraft Electrical equipment, and FY21 is for MOM and ALCS. Training Installation: FY15 and FY17 includes Carbon Brakes. FY18 and FY19 includes HF-ALE and CNS/ATM. FY18 1 OFT procured with current year funding and installed same year. FY19 1 OFT procured with current year funding and installed same year, 2 WST procured with current year funding and installed same year. FY20 includes ALCS and MOM. FY21 and through the FYDP includes ALCS, MOM, and Aircraft electrical.</p> <p>⁽¹⁷⁾ ILS cost in FY16 is for SEATS, ILS Cost in FY17-FY19 is for HF-ALE. ILS Cost in FY20 is for ALCS, Aircraft Electrical and MOM.</p> <p>⁽¹⁸⁾ Other support in FY16 includes engineering and logistics support for HF-ALE production and training. FY16 Decreased due to \$1.5 million Congressional Mark. FY17-FY18 includes engineering and logistics support for CNS/ATM production, logistics and training. FY19 includes engineering and logistics support for MOM and Aircraft Electrical and ALCS. FY20 through the FYDP includes engineering and logistics support for Mission Suite Upgrade.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series			Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)					

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	87.929	11.425	15.537	10.767	-	10.767	6.709	12.406	13.168	19.750	24.514	202.205
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	87.929	11.425	15.537	10.767	-	10.767	6.709	12.406	13.168	19.750	24.514	202.205
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	87.929	11.425	15.537	10.767	-	10.767	6.709	12.406	13.168	19.750	24.514	202.205
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Service Life Extension Program (SLEP) Phase 1 extends the service life of the aircraft to 2040+ through airframe strengthening and structural data recording and analysis. Just in time modifications to prevent aircraft grounding due to fatigue life expended. Modifications include, but not limited to: SLEP Phase 1; Individual Aircraft Tracking System (IATS); Crash Survivable Flight Incident Recorder (CSFIR) Phase 2; and SLEP Phase 1B.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: SLEP Phase 1 Installation Kit production buys in FY09-FY17 with installs in FY09-FY17. CSFIR Phase 2 Non-Recurring Engineering (NRE) FY17-FY20 with NRE kit buy in FY19; NRE kit install, production kits and production installs in FY20 to beyond FYDP. SLEP Phase 1B FY18 with kit buys and installs FY18 to beyond FYDP.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)			
Models of Systems Affected: E-6 Series				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Service Life Extension Program (SLEP) (OSIP 003-07)</i>													
A Kits													
Recurring													
1.1.1) SLEP Phase 1 Kits - NonOrganic ⁽¹⁹⁾	11 / 8.658	2 / 1.900	2 / 1.934	1 / 0.981	- / -	1 / 0.981	- / -	- / -	- / -	- / -	- / -	16 / 13.473	
1.1.2) CSFIR Phase 2 Kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.407	7 / 2.901	8 / 3.376	- / -	16 / 6.684	
1.1.3) SLEP Phase 1B Kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.153	2 / 0.156	2 / 0.159	2 / 0.162	8 / 0.660	16 / 1.290	
<i>Subtotal: Recurring</i>	<i>- / 8.658</i>	<i>- / 1.900</i>	<i>- / 1.934</i>	<i>- / 0.981</i>	<i>- / -</i>	<i>- / 0.981</i>	<i>- / 0.153</i>	<i>- / 0.563</i>	<i>- / 3.060</i>	<i>- / 3.538</i>	<i>- / 0.660</i>	<i>- / 21.447</i>	
Non-Recurring													
1.2.1) Installation Kits N/R - NonOrganic ⁽²⁰⁾	- / 6.413	- / -	- / -	- / 2.580	- / -	- / 2.580	- / 2.066	- / 5.672	- / 1.200	- / -	- / -	- / 17.931	
<i>Subtotal: Non-Recurring</i>	<i>- / 6.413</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 2.580</i>	<i>- / -</i>	<i>- / 2.580</i>	<i>- / 2.066</i>	<i>- / 5.672</i>	<i>- / 1.200</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 17.931</i>	
<i>Subtotal: Service Life Extension Program (SLEP) (OSIP 003-07)</i>	<i>11 / 15.071</i>	<i>2 / 1.900</i>	<i>2 / 1.934</i>	<i>1 / 3.561</i>	<i>- / -</i>	<i>1 / 3.561</i>	<i>2 / 2.219</i>	<i>3 / 6.235</i>	<i>9 / 4.260</i>	<i>10 / 3.538</i>	<i>8 / 0.660</i>	<i>48 / 39.378</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 15.071</i>	<i>- / 1.900</i>	<i>- / 1.934</i>	<i>- / 3.561</i>	<i>- / -</i>	<i>- / 3.561</i>	<i>- / 2.219</i>	<i>- / 6.235</i>	<i>- / 4.260</i>	<i>- / 3.538</i>	<i>- / 0.660</i>	<i>- / 39.378</i>	
Support (All Modification Items)													
3.1) IATS ⁽²¹⁾	- / -	- / -	- / 3.364	- / 1.854	- / -	- / 1.854	- / -	- / -	- / -	- / -	- / -	- / 5.218	
3.3) Data ⁽²²⁾	- / 0.063	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / 0.500	- / 0.510	- / 0.521	- / -	- / 2.594	
3.4) Training ⁽²³⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.486	- / 1.757	- / -	- / 3.243	
3.5) Support Equipment	- / 0.794	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.794	
3.6) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 0.510	- / 0.520	- / -	- / 1.530	
3.7) Other Support ⁽²⁴⁾	- / 11.411	- / 1.223	- / 1.455	- / 1.833	- / -	- / 1.833	- / 1.869	- / 2.498	- / 2.548	- / 2.598	- / 2.651	- / 28.086	
<i>Subtotal: Support</i>	<i>- / 12.268</i>	<i>- / 1.223</i>	<i>- / 5.819</i>	<i>- / 3.687</i>	<i>- / -</i>	<i>- / 3.687</i>	<i>- / 1.869</i>	<i>- / 3.498</i>	<i>- / 5.054</i>	<i>- / 5.396</i>	<i>- / 2.651</i>	<i>- / 41.465</i>	
Installation													
<i>Modification Item 1 of 1: Service Life Extension Program (SLEP) (OSIP 003-07)</i>	<i>- / 60.590</i>	<i>- / 8.302</i>	<i>- / 7.784</i>	<i>- / 3.519</i>	<i>- / -</i>	<i>- / 3.519</i>	<i>- / 2.621</i>	<i>- / 2.673</i>	<i>- / 3.854</i>	<i>- / 10.816</i>	<i>- / 21.203</i>	<i>- / 121.362</i>	
<i>Subtotal: Installation</i>	<i>- / 60.590</i>	<i>- / 8.302</i>	<i>- / 7.784</i>	<i>- / 3.519</i>	<i>- / -</i>	<i>- / 3.519</i>	<i>- / 2.621</i>	<i>- / 2.673</i>	<i>- / 3.854</i>	<i>- / 10.816</i>	<i>- / 21.203</i>	<i>- / 121.362</i>	
Total													
Total Cost (Procurement + Support + Installation)	87.929	11.425	15.537	10.767	-	10.767	6.709	12.406	13.168	19.750	24.514	202.205	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)

Modification Item 1 of 1: Service Life Extension Program (SLEP) (OSIP 003-07)

Manufacturer Information

Manufacturer Name: SLEP Phase 1/ALC Tinker Manufacturer Location: Tinker Air Force Base OK

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015	Nov 2016				
Delivery Dates	Mar 2015	Mar 2016	Mar 2017				

Manufacturer Name: CSFIR Phase 2 Manufacturer Location: TBD

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Dec 2018	Dec 2019	Dec 2020
Delivery Dates					Dec 2019	Dec 2020	Dec 2021

Manufacturer Name: SLEP Phase 1B/ALC Tinker Manufacturer Location: Tinker Air Force Base OK

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 5

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021

Installation Information

Method of Implementation: Drive In:: Installation Name: SLEP Phase 1 Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 60.590	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	11 / 60.590
FY 2015	- / -	2 / 8.302	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 8.302
FY 2016	- / -	- / -	2 / 7.784	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 7.784
FY 2017	- / -	- / -	- / -	1 / 3.519	- / -	1 / 3.519	- / -	- / -	- / -	- / -	- / -	1 / 3.519
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 60.590	2 / 8.302	2 / 7.784	1 / 3.519	- / -	1 / 3.519	- / -	- / -	- / -	- / -	- / -	16 / 80.195

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)

Modification Item 1 of 1: Service Life Extension Program (SLEP) (OSIP 003-07)

Installation Information

Method of Implementation: Drive In:: Installation Name: SLEP Phase 1 Kits

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	11	-	2	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	10	1	-	-	2	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: Drive In:: Installation Name: CSFIR Phase 2 Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.127	- / -	- / -	1 / 1.127
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 8.035	- / -	7 / 8.035
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 9.348	8 / 9.348
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.127	7 / 8.035	8 / 9.348	16 / 18.510

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	7	-	-	-	8	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	7	-	8	16

Method of Implementation: Drive-In:: Installation Name: SLEP Phase 1B Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)

Modification Item 1 of 1: Service Life Extension Program (SLEP) (OSIP 003-07)

Installation Information

Method of Implementation: Drive-In:: Installation Name: SLEP Phase 1B Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.621	- / -	- / -	- / -	- / -	2 / 2.621
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.673	- / -	- / -	- / -	2 / 2.673
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.727	- / -	- / -	2 / 2.727
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.781	- / -	2 / 2.781
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 11.855	8 / 11.855
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.621	2 / 2.673	2 / 2.727	2 / 2.781	8 / 11.855	16 / 22.657

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	8	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	9	16

Footnotes:

- (19) SLEP Phase 1 Prior year - FY17: Decrease due to per unit cost adjustments.
- (20) Installation Kits N/R cost in FY17 to support SLEP Phase 1B, and Installation Kits N/R cost in FY18-FY20 to support the start of the CSFIR Phase 2 effort.
- (21) IATS Software upgrades are required for aircraft to reach 45,000 flight hours. Must have completed SLEP Phase 1 and have a current individual aircraft tracking system.
- (22) FY16: Increase due to runway survey analysis requirement.
- (23) FY20: Trainer kit buys for CFIRS Phase 2.
- (24) Other Support cost in FY16 & FY17 is to support production and training for SLEP Phase 1B and IATS contract award in FY16. Other support cost in FY18-FY21 is for engineering and logistics support for SLEP Phase 1B installation.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	196.045	24.492	15.231	38.090	-	38.090	43.415	66.755	30.990	27.667	30.372	473.057
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	196.045	24.492	15.231	38.090	-	38.090	43.415	66.755	30.990	27.667	30.372	473.057
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	196.045	24.492	15.231	38.090	-	38.090	43.415	66.755	30.990	27.667	30.372	473.057
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Communications Upgrade installs expanded aircraft communication bandwidth capability required to improve Airborne Command Post (ABNCP) operations. Internet Protocol (IP) connectivity and wideband communication capability to enable voice, video and data services is mission critical to command and control operations. Modifications include: IP Phase 1, International Marine/ Maritime Satellite (INMARSAT); IP Phase 3, removal of Utility Trailing Wire Antenna (UTWA); Common Very Low Frequency Receiver (CVLR); High Power Transmit Set (HPTS) and integrate commercial wideband Satellite Communication (SATCOM) capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: IP Phase 1 INMARSAT NRE FY07-FY09 with NRE kit installation in FY09. Phase 1 production kit buys in FY10-FY17 with installs FY11-FY18. IP Phase 3 UTWA removal NRE FY07-FY08 with NRE kit install in FY09. Phase 3 aircraft production kit buys in FY10-FY17 with installs in FY11-FY18. IP Phases 1 and 3 installations will be completed concurrently with the Block I production program in FY12 through FY18. CVLR NRE FY17-FY19 and NRE kit Buy FY18; production kit buys and production installs FY19 to beyond the FYDP. HPTS NRE FY17-FY19, and NRE Kit Buy in FY18; production kit buys FY19 to beyond the FYDP. Commercial Wideband SATCOM non-recurring engineering will begin in FY15 and first kit for installation in E-6B Systems Integration Laboratory (SIL) for operational testing and cosite analysis. FY17 complete NRE, procure four aircraft kits and one aircraft install, procure one Mission Avionics System Trainer (MAS) kit and training NRE. FY18 procure seven aircraft kits and six aircraft installs. Additionally FY18 procure one MAS kit and installation of two MAS modifications. FY19 four aircraft installs and one Weapons Systems Trainer (WST) kits and installation. Five aircraft kits and installations are not funded under this program.

The FY 2017 funding request was increased by RMD700A2 INV-016 Air Force-Senior Leader Commercial SATCOM \$14.0M

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)			
Models of Systems Affected: E-6 Series				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Communications Upgrade (OSIP 012-07)													
A Kits													
Recurring													
1.1.1) Phase 1 Kit - NonOrganic ⁽²⁵⁾	10 / 4.101	3 / 1.392	1 / 0.474	2 / 0.966	- / -	2 / 0.966	- / -	- / -	- / -	- / -	- / -	16 / 6.933	
1.1.2) Phase 3 Kit - NonOrganic ⁽²⁶⁾	10 / 5.505	3 / 2.013	1 / 0.684	2 / 1.396	- / -	2 / 1.396	- / -	- / -	- / -	- / -	- / -	16 / 9.598	
1.1.3) CVLR Kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.363	4 / 1.452	4 / 1.478	4 / 1.510	3 / 1.150	16 / 5.953	
1.1.4) HPTS Kits - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.557	4 / 2.230	4 / 2.235	4 / 2.240	3 / 1.682	16 / 8.944	
1.1.5) Lab Kits - NonOrganic	- / -	1 / 0.300	- / -	- / -	- / -	- / -	2 / 1.907	- / -	- / -	- / -	- / -	3 / 2.207	
1.1.6) Wideband Satellite Communication (SATCOM) - NonOrganic ⁽²⁷⁾	- / -	- / -	- / -	4 / 1.227	- / -	4 / 1.227	7 / 2.191	- / -	- / -	- / -	- / -	11 / 3.418	
1.1.7) Archived ECPs - Organic	19 / 8.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 8.082	
<i>Subtotal: Recurring</i>	- / 17.688	- / 3.705	- / 1.158	- / 3.589	- / -	- / 3.589	- / 5.018	- / 3.682	- / 3.713	- / 3.750	- / 2.832	- / 45.135	
Non-Recurring													
1.2.1) Installation Kit N/R - NonOrganic	- / 53.769	- / 2.500	- / -	- / 12.272	- / -	- / 12.272	- / 19.592	- / 34.644	- / -	- / -	- / -	- / 112.777	
<i>Subtotal: Non-Recurring</i>	- / 53.769	- / 2.500	- / -	- / 12.272	- / -	- / 12.272	- / 19.592	- / 34.644	- / -	- / -	- / -	- / 112.777	
B Kits													
Recurring													
2.1.1) Phase 1 Equipment - Organic ⁽²⁸⁾	10 / 5.673	3 / 2.091	1 / 0.710	2 / 1.450	- / -	2 / 1.450	- / -	- / -	- / -	- / -	- / -	16 / 9.924	
2.1.2) Phase 3 Equipment - Organic ⁽²⁹⁾	10 / 7.386	3 / 3.018	1 / 1.027	2 / 2.094	- / -	2 / 2.094	- / -	- / -	- / -	- / -	- / -	16 / 13.525	
2.1.3) CVLR Equipment - Organic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.517	4 / 2.068	4 / 2.105	4 / 2.150	3 / 1.620	16 / 8.460	
2.1.4) HPTS Equipment - Organic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.451	4 / 5.810	4 / 5.908	4 / 6.000	3 / 4.510	16 / 23.679	
2.1.5) Lab Equipment - Organic	- / -	1 / 1.200	- / -	- / -	- / -	- / -	2 / 1.968	- / -	- / -	- / -	- / -	3 / 3.168	
2.1.6) Wideband Satellite Communication (SATCOM) - Organic	- / -	- / -	- / -	4 / 4.908	- / -	4 / 4.908	7 / 8.763	- / -	- / -	- / -	- / -	11 / 13.671	
2.1.7) Archived ECPs - Organic	19 / 3.667	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 3.667	
<i>Subtotal: Recurring</i>	- / 16.726	- / 6.309	- / 1.737	- / 8.452	- / -	- / 8.452	- / 12.699	- / 7.878	- / 8.013	- / 8.150	- / 6.130	- / 76.094	
<i>Subtotal: Communications Upgrade (OSIP 012-07)</i>	78 / 88.183	14 / 12.514	4 / 2.895	16 / 24.313	- / -	16 / 24.313	22 / 27.309	16 / 46.204	16 / 11.726	16 / 11.900	12 / 8.962	194 / 234.006	
<i>Subtotal: Procurement, All Modification Items</i>	- / 88.183	- / 12.514	- / 2.895	- / 24.313	- / -	- / 24.313	- / 27.309	- / 46.204	- / 11.726	- / 11.900	- / 8.962	- / 234.006	
Support (All Modification Items)													
3.2) Data	- / 2.848	- / 0.139	- / -	- / 0.800	- / -	- / 0.800	- / 0.600	- / -	- / 0.590	- / -	- / -	- / 4.977	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)			
Models of Systems Affected: E-6 Series				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
3.3) Training ⁽³⁰⁾	16 / 8.828	- / -	- / -	1 / 0.800	- / -	1 / 0.800	1 / 1.824	4 / 7.473	1 / 1.784	- / -	- / -	23 / 20.709	
3.5) ILS	- / 3.169	- / 1.158	- / -	- / 0.509	- / -	- / 0.509	- / 0.537	- / -	- / 0.330	- / -	- / -	- / 15.703	
3.6) Other Support	- / 147.245	- / 12.577	- / 3.508	- / 12.415	- / -	- / 12.415	- / 12.463	- / 2.512	- / 2.562	- / 2.613	- / -	- / 65.895	
Subtotal: Support	- / 62.090	- / 3.874	- / 3.508	- / 4.524	- / -	- / 4.524	- / 5.424	- / 9.985	- / 5.266	- / 2.613	- / -	- / 97.284	
Installation													
Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)	- / 145.772	- / 8.104	- / 8.828	- / 9.253	- / -	- / 9.253	- / 10.682	- / 10.566	- / 13.998	- / 13.154	- / 21.410	- / 141.767	
Subtotal: Installation	- / 145.772	- / 8.104	- / 8.828	- / 9.253	- / -	- / 9.253	- / 10.682	- / 10.566	- / 13.998	- / 13.154	- / 21.410	- / 141.767	
Total													
Total Cost (Procurement + Support + Installation)	196.045	24.492	15.231	38.090	-	38.090	43.415	66.755	30.990	27.667	30.372	473.057	

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0564 / E-6 Series		Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)		
Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)							
Manufacturer Information							
Manufacturer Name: Phase 1 Boeing				Manufacturer Location: Seattle WA			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 16			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015	Nov 2016				
Delivery Dates	Mar 2016	Mar 2017	Mar 2018				
Manufacturer Name: Training Equipment / Multiple				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: CVLR & HPTS / TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates				Mar 2019	Mar 2020	Mar 2021	Mar 2022
Manufacturer Name: SATCOM / TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 7			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jun 2017	Apr 2018			
Delivery Dates			Jan 2018	Nov 2018			
Manufacturer Name: Phase 3/ Rockwell Collins				Manufacturer Location: Cedar Rapids IA			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 16			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015	Nov 2016				
Delivery Dates	Mar 2016	Mar 2017	Mar 2018				
Manufacturer Name: Lab Kits				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 23				Production Leadtime (in Months): 7			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Sep 2016			Nov 2017			
Delivery Dates	Apr 2017			Mar 2019			

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)

Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Phase 1 Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	8 / 20.097	2 / 3.584	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	10 / 23.681
FY 2015	- / -	- / -	2 / 4.228	1 / 2.155	- / -	1 / 2.155	- / -	- / -	- / -	- / -	- / -	3 / 6.383
FY 2016	- / -	- / -	- / -	1 / 2.155	- / -	1 / 2.155	- / -	- / -	- / -	- / -	- / -	1 / 2.155
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.362	- / -	- / -	- / -	- / -	2 / 4.362
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	8 / 20.097	2 / 3.584	2 / 4.228	2 / 4.310	- / -	2 / 4.310	2 / 4.362	- / -	- / -	- / -	- / -	16 / 36.581

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	8	-	1	-	1	-	1	-	1	1	1	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	8	-	-	-	1	-	1	-	1	-	1	-	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: [none specified]:: Installation Name: Phase 3 Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	8 / 21.993	2 / 4.520	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	10 / 26.513
FY 2015	- / -	- / -	2 / 4.600	1 / 2.340	- / -	1 / 2.340	- / -	- / -	- / -	- / -	- / -	3 / 6.940
FY 2016	- / -	- / -	- / -	1 / 2.340	- / -	1 / 2.340	- / -	- / -	- / -	- / -	- / -	1 / 2.340
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.760	- / -	- / -	- / -	- / -	2 / 4.760
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	8 / 21.993	2 / 4.520	2 / 4.600	2 / 4.680	- / -	2 / 4.680	2 / 4.760	- / -	- / -	- / -	- / -	16 / 40.553

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)

Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Phase 3 Kit

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot										
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4												
In	8	-	1	-	1	-	1	-	1	1	-	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	8	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

Method of Implementation: Contractor Drive In:: Installation Name: CVLR & HPTS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.911	- / -	- / -	2 / 2.911
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 11.854	- / -	- / -	8 / 11.854
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 12.063	- / -	8 / 12.063
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 9.190	6 / 9.190
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.911	8 / 11.854	8 / 12.063	14 / 21.410
												32 / 48.238

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	4	2	-	2	4	2	14	32
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	4	2	-	2	4	2	16	32

Method of Implementation: [none specified]:: Installation Name: Lab Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)

Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Lab Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	1 / 0.263	- / -	1 / 0.263	- / -	- / -	- / -	- / -	- / -	1 / 0.263
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.911	- / -	- / -	- / -	2 / 2.911
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.263	- / -	1 / 0.263	- / -	2 / 2.911	- / -	- / -	- / -	3 / 3.174

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	3
Out	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	3

Method of Implementation: [none specified]:: Installation Name: Wideband Satellite Communication (SATCOM)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.038	- / -	- / -	- / -	- / -	4 / 1.038
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.812	- / -	- / -	- / -	7 / 1.812
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.038	7 / 1.812	- / -	- / -	- / -	11 / 2.850

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)

Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Wideband Satellite Communication (SATCOM)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	2	1	2	2	2	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	2	1	2	2	-	-	-	-	-	-	-	-	-	

Method of Implementation: Drive In:: Installation Name: Training

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	16 / 3.682	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	16 / 3.682
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.261	- / -	- / -	- / -	- / -	1 / 0.261
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.261	- / -	- / -	- / -	- / -	1 / 0.261
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.932	2 / 2.144	- / -	- / -	4 / 5.076
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.091	- / -	1 / 1.091
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	16 / 3.682	- / -	- / -	- / -	- / -	- / -	2 / 0.522	2 / 2.932	2 / 2.144	1 / 1.091	- / -	23 / 10.371

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	-	1	1	-	-	-	1	-	-	-
Out	15	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	1	1	-	-	-	1	-	-

Method of Implementation (Organic): Archived ECPs **Installation Quantity:** 19

Method of Implementation (Organic): Phase 1 Equipment **Installation Quantity:** 16

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)

Modification Item 1 of 1: Communications Upgrade (OSIP 012-07)

Installation Information

Method of Implementation (Organic): Phase 3 Equipment	Installation Quantity: 16
Method of Implementation (Organic): CVLR Equipment	Installation Quantity: 16
Method of Implementation (Organic): HPTS Equipment	Installation Quantity: 16
Method of Implementation (Organic): Lab Equipment	Installation Quantity: 3
Method of Implementation (Organic): Wideband Satellite Communication (SATCOM)	Installation Quantity: 11
Method of Implementation (Organic): Archived ECPs	Installation Quantity: 19

Footnotes:

- (25) Phase One A Kit unit cost in FY14-FY17 is based on negotiated contract pricing.
- (26) Phase Three A Kit unit cost in FY14-FY17 is based on negotiated contract pricing.
- (27) FY15 SATCOM ATR received July 2015 in the amount of \$4M.
- (28) Phase One Equipment unit cost in FY14-FY17 is based on negotiated contract pricing.
- (29) Phase Three Equipment unit cost in FY14-FY17 is based on negotiated contract pricing.
- (30) Training cost in FY19 and FY20 includes funding for various trainers/courseware in support of CVLR and HPTS.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 5 / Block I (OSIP 008-10)
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	322.821	77.422	43.293	55.488	-	55.488	28.233	6.382	0.804	-	-	534.443
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	322.821	77.422	43.293	55.488	-	55.488	28.233	6.382	0.804	-	-	534.443
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	322.821	77.422	43.293	55.488	-	55.488	28.233	6.382	0.804	-	-	534.443

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Block I corrects Airborne Command Post (ABNCP) operational test deficiencies to improve mission capability, readiness and legacy system obsolescence. Modifications include, but not limited to: Block I; Very Low Frequency (VLF) Transmit Terminal (VTT); Technology Upgrade including workstations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Block I Systems Integration Lab (SIL) & aircraft (A/C) development kit installed in SIL FY06 and in A/C FY08; Milestone-C 3Q FY10; Low-Rate Initial Production (LRIP) contract award 3Q FY10; LRIP 1 kit buy in FY10 and 3 kit buys in FY11 with installs in FY11 and FY12 (4 A/C); Full-Rate Production (FRP) Decision Review achieved 2Q FY12. FRP kit buys FY12-FY17 (11 A/C) with installs in FY13-FY18. VTT Prototype SIL and A/C development kit delivery in FY11 with installation in FY12. SIL and A/C testing 2Q FY12 to 1Q FY13. VTT Production kit buys in FY13-FY17 with installs in FY13-FY18 (15 A/C). Technology Upgrade NRE in FY15 with NRE kit buy in FY15 and installation in FY16; production kit buys in FY16-FY19 with installs in FY16-FY20.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 5 / Block I (OSIP 008-10)			
Models of Systems Affected: E-6 Series				Modification Type: TBD				Related RDT&E PEs: 0101402N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Block I (OSIP 008-10)</i>													
A Kits													
Recurring													
1.1.1) BLOCK ONE Kit - NonOrganic ⁽³¹⁾	9 / 33.915	3 / 11.637	1 / 4.008	2 / 8.214	- / -	2 / 8.214	- / -	- / -	- / -	- / -	- / -	15 / 57.774	
1.1.2) TECH UPGRADE - NonOrganic	- / -	1 / 0.248	1 / 0.252	6 / 1.542	- / -	6 / 1.542	6 / 1.572	2 / 0.534	- / -	- / -	- / -	16 / 4.148	
<i>Subtotal: Recurring</i>	- / 33.915	- / 11.885	- / 4.260	- / 9.756	- / -	- / 9.756	- / 1.572	- / 0.534	- / -	- / -	- / -	- / 61.922	
Non-Recurring													
1.2.1) Installation Kits N/R - NonOrganic	- / 43.908	- / 9.800	- / 0.839	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 54.547	
<i>Subtotal: Non-Recurring</i>	- / 43.908	- / 9.800	- / 0.839	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 54.547	
B Kits													
Recurring													
2.1.1) BLOCK ONE Equipment - Organic ⁽³²⁾	9 / 62.400	3 / 21.612	1 / 7.443	2 / 15.254	- / -	2 / 15.254	- / -	- / -	- / -	- / -	- / -	15 / 106.709	
2.1.2) TECH UPGRADE - Organic	- / -	1 / 0.425	1 / 0.425	6 / 2.565	- / -	6 / 2.565	6 / 2.604	2 / 0.886	- / -	- / -	- / -	16 / 6.905	
2.1.3) VTT - NonOrganic ⁽³³⁾	9 / 3.412	3 / 1.189	2 / 0.812	1 / 0.416	- / -	1 / 0.416	- / -	- / -	- / -	- / -	- / -	15 / 5.829	
<i>Subtotal: Recurring</i>	- / 65.812	- / 23.226	- / 8.680	- / 18.235	- / -	- / 18.235	- / 2.604	- / 0.886	- / -	- / -	- / -	- / 119.443	
<i>Subtotal: Block I (OSIP 008-10)</i>	27 / 143.635	11 / 44.911	6 / 13.779	17 / 27.991	- / -	17 / 27.991	12 / 4.176	4 / 1.420	- / -	- / -	- / -	77 / 235.912	
<i>Subtotal: Procurement, All Modification Items</i>	- / 143.635	- / 44.911	- / 13.779	- / 27.991	- / -	- / 27.991	- / 4.176	- / 1.420	- / -	- / -	- / -	- / 235.912	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / -	- / 0.875	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.875	
3.2) Data ⁽³⁴⁾	- / 11.187	- / 3.903	- / 3.177	- / 3.594	- / -	- / 3.594	- / 2.749	- / -	- / -	- / -	- / -	- / 24.610	
3.3) Training	8 / 41.929	1 / 2.440	2 / 0.865	1 / 0.875	- / -	1 / 0.875	- / 0.132	- / -	- / -	- / -	- / -	12 / 46.241	
3.4) Support Equipment	1 / 26.094	- / -	3 / 1.997	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 28.091	
3.5) ILS ⁽³⁵⁾	- / 2.735	- / 0.439	- / 0.456	- / 0.471	- / -	- / 0.471	- / -	- / -	- / -	- / -	- / -	- / 4.101	
3.6) Other Support	- / 137.746	- / 6.886	- / 8.341	- / 8.016	- / -	- / 8.016	- / 2.637	- / 2.598	- / -	- / -	- / -	- / 66.224	
<i>Subtotal: Support</i>	- / 119.691	- / 14.543	- / 14.836	- / 12.956	- / -	- / 12.956	- / 5.518	- / 2.598	- / -	- / -	- / -	- / 170.142	
Installation													
<i>Modification Item 1 of 1: Block I (OSIP 008-10)</i>	- / 59.495	- / 17.968	- / 14.678	- / 14.541	- / -	- / 14.541	- / 18.539	- / 2.364	- / 0.804	- / -	- / -	- / 128.389	
<i>Subtotal: Installation</i>	- / 59.495	- / 17.968	- / 14.678	- / 14.541	- / -	- / 14.541	- / 18.539	- / 2.364	- / 0.804	- / -	- / -	- / 128.389	
Total													
Total Cost (Procurement + Support + Installation)	322.821	77.422	43.293	55.488	-	55.488	28.233	6.382	0.804	-	-	534.443	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 5 / Block I (OSIP 008-10)

Modification Item 1 of 1: Block I (OSIP 008-10)

Manufacturer Information

Manufacturer Name: Block 1/Rockwell Collins Manufacturer Location: Cedar Rapids IA

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 16

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015	Nov 2016				
Delivery Dates	Mar 2016	Mar 2017	Mar 2018				

Manufacturer Name: Tech Upgrade/Rockwell Collins Manufacturer Location: Cedar Rapids IA

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Oct 2015	Oct 2016	Nov 2017	Nov 2018		
Delivery Dates	Nov 2015	Oct 2016	Oct 2017	Nov 2018	Nov 2019		

Manufacturer Name: VTT/Rockwell Collins Manufacturer Location: Cedar Rapids IA

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 16

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015	Nov 2016				
Delivery Dates	Mar 2016	Mar 2017	Mar 2018				

Manufacturer Name: Training/TBD Manufacturer Location: TBD

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015	Nov 2016				
Delivery Dates	Jun 2015	Jun 2016	Jun 2017				

Installation Information

Method of Implementation: Contractor Drive In:: Installation Name: BLOCK ONE Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 52.535	2 / 12.774	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	9 / 65.309
FY 2015	- / -	- / -	2 / 12.824	1 / 6.477	- / -	1 / 6.477	- / -	- / -	- / -	- / -	- / -	3 / 19.301
FY 2016	- / -	- / -	- / -	1 / 6.477	- / -	1 / 6.477	- / -	- / -	- / -	- / -	- / -	1 / 6.477
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 15.778	- / -	- / -	- / -	- / -	2 / 15.778
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 5 / Block I (OSIP 008-10)

Modification Item 1 of 1: Block I (OSIP 008-10)

Installation Information

Method of Implementation: Contractor Drive In:: Installation Name: BLOCK ONE Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 52.535	2 / 12.774	2 / 12.824	2 / 12.954	- / -	2 / 12.954	2 / 15.778	- / -	- / -	- / -	- / -	15 / 106.865

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	7	-	1	-	1	-	1	-	1	1	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
Out	7	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	15	

Method of Implementation: Contractor Drive In:: Installation Name: TECH UPGRADE

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	1 / 0.372	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.372
FY 2016	- / -	- / -	- / -	1 / 0.378	- / -	1 / 0.378	- / -	- / -	- / -	- / -	- / -	1 / 0.378
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.313	- / -	- / -	- / -	- / -	6 / 2.313
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.364	- / -	- / -	- / -	6 / 2.364
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.804	- / -	- / -	2 / 0.804
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 0.372	1 / 0.378	- / -	1 / 0.378	6 / 2.313	6 / 2.364	2 / 0.804	- / -	- / -	16 / 6.231

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 5 / Block I (OSIP 008-10)

Modification Item 1 of 1: Block I (OSIP 008-10)

Installation Information

Method of Implementation: Contractor Drive In:: Installation Name: TECH UPGRADE

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	2	1	2	1	2	1	2	1	2	1	1	-	-	-	-	-	-	-	16	
Out	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	2	1	2	1	2	1	2	1	2	1	1	-	-	-	-	-	-	-	16

Method of Implementation: Drive In:: Installation Name: VTT

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 2.831	2 / 0.833	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	9 / 3.664
FY 2015	- / -	1 / 0.416	2 / 0.853	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.269
FY 2016	- / -	- / -	- / -	2 / 0.874	- / -	2 / 0.874	- / -	- / -	- / -	- / -	- / -	2 / 0.874
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.448	- / -	- / -	- / -	- / -	1 / 0.448
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 2.831	3 / 1.249	2 / 0.853	2 / 0.874	- / -	2 / 0.874	1 / 0.448	- / -	- / -	- / -	- / -	15 / 6.255

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	1	-	1	1	-	1	1	-	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	15
Out	2	2	2	2	1	-	1	-	1	1	-	-	1	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	15

Method of Implementation: Drive In:: Installation Name: Training

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	6 / 4.129	2 / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	8 / 7.629
FY 2015	- / -	1 / 0.445	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.445

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 5 / Block I (OSIP 008-10)

Modification Item 1 of 1: Block I (OSIP 008-10)

Installation Information

Method of Implementation: Drive In:: Installation Name: Training

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	2 / 0.629	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.629
FY 2017	- / -	- / -	- / -	1 / 0.335	- / -	1 / 0.335	- / -	- / -	- / -	- / -	- / -	1 / 0.335
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 4.129	3 / 3.945	2 / 0.629	1 / 0.335	- / -	1 / 0.335	- / -	- / -	- / -	- / -	- / -	12 / 9.038

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	6	1	-	2	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	6	-	1	-	2	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation (Organic): BLOCK ONE Equipment	Installation Quantity: 15
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Method of Implementation (Organic): TECH UPGRADE	Installation Quantity: 16
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Footnotes:

- (31) Block I A Kit unit cost in FY14-FY17 is based on negotiated contract pricing.
- (32) Block I Equipment unit cost in FY15-FY17 is based on negotiated contract pricing.
- (33) VTT B Kit unit cost in FY14-FY17 is based on negotiated contract pricing.
- (34) Data cost in FY17-FY18 is based on negotiated contract pricing.
- (35) ILS support cost in FY15-FY17 is based on negotiated contract pricing.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series			Modification Number / Title: 6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)					

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	84.458	41.489	48.568	35.849	-	35.849	41.540	25.834	9.200	-	-	286.938
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	84.458	41.489	48.568	35.849	-	35.849	41.540	25.834	9.200	-	-	286.938
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	84.458	41.489	48.568	35.849	-	35.849	41.540	25.834	9.200	-	-	286.938
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Multi-Role Tactical Common Data Link (MR-TCDL) installs expanded aircraft communication bandwidth capability required to interoperate with United States Strategic Command's National Command and Control Architecture. Modification includes, but is not limited to: MR-TCDL.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MR-TCDL contract award FY12; Non-Recurring Engineering (NRE) in FY12-FY13 with NRE aircraft kit buy in FY13, NRE kit installation in FY14 and test in FY15 and FY16. Production A kit buys in FY15-FY19 and B Kit buys in FY15-FY18, with installs FY16-FY20.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)			
Models of Systems Affected: E-6 Series					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)</i>													
A Kits													
Recurring													
1.1.1) MR-TCDL Kit - Organic	1 / 1.595	1 / 2.455	3 / 5.009	3 / 5.131	- / -	3 / 5.131	6 / 10.466	2 / 3.558	- / -	- / -	- / -	16 / 28.214	
<i>Subtotal: Recurring</i>	<i>- / 1.595</i>	<i>- / 2.455</i>	<i>- / 5.009</i>	<i>- / 5.131</i>	<i>- / -</i>	<i>- / 5.131</i>	<i>- / 10.466</i>	<i>- / 3.558</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 28.214</i>	
Non-Recurring													
1.2.1) Installation Kit N/R - NonOrganic	- / 50.894	- / 16.267	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 67.161	
<i>Subtotal: Non-Recurring</i>	<i>- / 50.894</i>	<i>- / 16.267</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 67.161</i>	
B Kits													
Recurring													
2.1.1) MR-TCDL Equipment - NonOrganic	- / 4.932	2 / 8.752	5 / 23.373	5 / 18.861	- / -	5 / 18.861	3 / 11.541	- / -	- / -	- / -	- / -	15 / 67.459	
2.1.2) Archive ECPs - Organic	- / 6.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.025	
<i>Subtotal: Recurring</i>	<i>- / 10.957</i>	<i>- / 8.752</i>	<i>- / 23.373</i>	<i>- / 18.861</i>	<i>- / -</i>	<i>- / 18.861</i>	<i>- / 11.541</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 73.484</i>	
<i>Subtotal: Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)</i>	<i>1 / 63.446</i>	<i>3 / 27.474</i>	<i>8 / 28.382</i>	<i>8 / 23.992</i>	<i>- / -</i>	<i>8 / 23.992</i>	<i>9 / 22.007</i>	<i>2 / 3.558</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>31 / 168.859</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 63.446</i>	<i>- / 27.474</i>	<i>- / 28.382</i>	<i>- / 23.992</i>	<i>- / -</i>	<i>- / 23.992</i>	<i>- / 22.007</i>	<i>- / 3.558</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 168.859</i>	
Support (All Modification Items)													
3.1) Engineering Change Orders	- / 0.402	- / 0.694	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.096	
3.2) Data ⁽³⁶⁾	- / -	- / 15.024	- / 12.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.024	
3.3) Training ⁽³⁷⁾	- / -	- / -	- / 19.354	- / 12.956	- / -	- / 12.956	- / -	- / -	- / -	- / -	- / -	- / 12.310	
3.5) ILS ⁽³⁸⁾	- / -	- / 0.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.010	
3.6) Other Support ⁽³⁹⁾	- / 120.610	- / 18.287	- / 16.606	- / 15.945	- / -	- / 15.945	- / 4.459	- / 3.826	- / 2.927	- / -	- / -	- / 152.660	
<i>Subtotal: Support</i>	<i>- / 121.012</i>	<i>- / 14.015</i>	<i>- / 17.960</i>	<i>- / 18.901</i>	<i>- / -</i>	<i>- / 18.901</i>	<i>- / 4.459</i>	<i>- / 3.826</i>	<i>- / 2.927</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 73.100</i>	
Installation													
<i>Modification Item 1 of 1: Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 12.226</i>	<i>- / 12.956</i>	<i>- / -</i>	<i>- / 12.956</i>	<i>- / 15.074</i>	<i>- / 18.450</i>	<i>- / 6.273</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 44.979</i>	
<i>Subtotal: Installation</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 12.226</i>	<i>- / 12.956</i>	<i>- / -</i>	<i>- / 12.956</i>	<i>- / 15.074</i>	<i>- / 18.450</i>	<i>- / 6.273</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 44.979</i>	
Total													
Total Cost (Procurement + Support + Installation)	84.458	41.489	48.568	35.849	-	35.849	41.540	25.834	9.200	-	-	286.938	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)

Modification Item 1 of 1: Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)

Manufacturer Information

Manufacturer Name: MR-TCDL NRE Kit / Northrop Grumman Systems Corp	Manufacturer Location: San Diego, CA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 18

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: MR-TCDL Production B Kit Equipment Kit / Northrop Grumman Systems Corp	Manufacturer Location: San Diego, CA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 20

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Mar 2016	Mar 2017	Jan 2018			
Delivery Dates	Sep 2016	Nov 2017	Nov 2018	Sep 2019			

Installation Information

Method of Implementation: Drive In:: Installation Name: MR-TCDL Equipment

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	1 / 2.226	1 / 2.956	- / -	1 / 2.956	- / -	- / -	- / -	- / -	- / -	2 / 5.182
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	5 / 15.074	- / -	- / -	- / -	- / -	5 / 15.074
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 15.375	- / -	- / -	- / -	5 / 15.375
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.075	2 / 6.273	- / -	- / -	3 / 9.348
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 2.226	1 / 2.956	- / -	1 / 2.956	5 / 15.074	6 / 18.450	2 / 6.273	- / -	- / -	15 / 44.979

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	-	-	-	1	-	-	-	1	-	2	1	2	-	3	1	1	1	2	-	-	-	-	-	-	-	-	-	-	15
Out	-	-	-	-	-	-	-	-	1	-	-	1	-	-	2	1	2	1	2	2	1	2	-	-	-	-	-	-	-	-	-	15	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 6 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)

Modification Item 1 of 1: Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)

Installation Information

Method of Implementation (Organic): MR-TCDL Kit	Installation Quantity: 16
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Footnotes:

- (36) Data cost in FY15 is for Installation Data Package for MR-TCDL effort to support a installation contract award in FY16.
- (37) Funding is for upgrades to operational and maintenance trainers and Courseware.
- (38) ILS cost in FY14 and FY15 is to support the ILS systems integration of the MR-TCDL program.
- (39) Other Support cost in FY15 and FY16 to support NRE A/C airworthiness and mission systems testing. In FY17 and FY18 to support Installation Data Package (IDP) validation and verification during associated aircraft installs, and FY19 and FY20 to support the remaining installs.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 7 / Auxiliary Power Unit (APU) (OSIP 002-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	19.659	4.900	13.590	23.875	-	23.875	26.117	18.434	5.301	-	-	111.876
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	19.659	4.900	13.590	23.875	-	23.875	26.117	18.434	5.301	-	-	111.876
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	19.659	4.900	13.590	23.875	-	23.875	26.117	18.434	5.301	-	-	111.876
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Auxiliary Power Unit (APU) corrects Airborne Command Post (ABNCP) Follow-On Operational Test (FOT&E) deficiencies by installing an improved APU to meet increased aircraft power requirements. Modifications includes, but not limited to: APU.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Development FY09-FY13. Prototype aircraft development kit delivered FY11 with installation in FY13 under Block I OSIP (008-10). APU production kit buys FY14-FY17 with installs in FY16-FY20 (15 A/C).

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 7 / Auxiliary Power Unit (APU) (OSIP 002-12)			
Models of Systems Affected: E-6 Series					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Auxiliary Power Unit (APU) (OSIP 002-12)</i>													
A Kits													
Recurring													
1.1.1) APU Kit - NonOrganic ⁽⁴⁰⁾	1 / 1.966	1 / 1.985	2 / 3.154	4 / 8.228	- / -	4 / 8.228	5 / 10.471	2 / 4.264	- / -	- / -	- / -	15 / 30.068	
<i>Subtotal: Recurring</i>	- / 1.966	- / 1.985	- / 3.154	- / 8.228	- / -	- / 8.228	- / 10.471	- / 4.264	- / -	- / -	- / -	- / 30.068	
Non-Recurring													
1.2.1) Installation Kits N/R - NonOrganic ⁽⁴¹⁾	- / 5.353	- / 0.557	- / 1.080	- / 1.420	- / -	- / 1.420	- / -	- / -	- / -	- / -	- / -	- / 8.410	
<i>Subtotal: Non-Recurring</i>	- / 5.353	- / 0.557	- / 1.080	- / 1.420	- / -	- / 1.420	- / -	- / -	- / -	- / -	- / -	- / 8.410	
B Kits													
Recurring													
2.1.1) APU Equipment - Organic ⁽⁴²⁾	6 / 4.531	- / -	2 / 1.474	5 / 3.752	- / -	5 / 3.752	2 / 1.534	- / -	- / -	- / -	- / -	15 / 11.291	
2.1.2) APU Generator - Organic	8 / 0.478	- / -	3 / 0.186	4 / 0.252	- / -	4 / 0.252	- / -	- / -	- / -	- / -	- / -	15 / 0.916	
<i>Subtotal: Recurring</i>	- / 5.009	- / -	- / 1.660	- / 4.004	- / -	- / 4.004	- / 1.534	- / -	- / -	- / -	- / -	- / 12.207	
<i>Subtotal: Auxiliary Power Unit (APU) (OSIP 002-12)</i>	15 / 12.328	1 / 2.542	7 / 5.894	13 / 13.652	- / -	13 / 13.652	7 / 12.005	2 / 4.264	- / -	- / -	- / -	45 / 50.685	
<i>Subtotal: Procurement, All Modification Items</i>	- / 12.328	- / 2.542	- / 5.894	- / 13.652	- / -	- / 13.652	- / 12.005	- / 4.264	- / -	- / -	- / -	- / 50.685	
Support (All Modification Items)													
3.2) Data ⁽⁴³⁾	- / -	- / 0.545	- / 1.176	- / 0.487	- / -	- / 0.487	- / 0.493	- / -	- / -	- / -	- / -	- / 2.701	
3.3) Training ⁽⁴⁴⁾	1 / 3.826	- / -	2 / 0.268	- / 0.517	- / -	- / 0.517	- / 2.538	- / 1.060	- / -	- / -	- / -	3 / 8.209	
3.4) Support Equipment ⁽⁴⁵⁾	- / 0.303	- / -	- / 0.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.083	
3.5) ILS ⁽⁴⁶⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.287	- / 0.279	- / -	- / -	- / -	- / 0.566	
3.6) Other Support ⁽⁴⁷⁾	- / 3.202	- / 1.813	- / 2.225	- / 2.269	- / -	- / 2.269	- / 2.314	- / 2.360	- / 1.153	- / -	- / -	- / 15.336	
<i>Subtotal: Support</i>	- / 7.331	- / 2.358	- / 4.449	- / 3.273	- / -	- / 3.273	- / 5.632	- / 3.699	- / 1.153	- / -	- / -	- / 27.895	
Installation													
<i>Modification Item 1 of 1: Auxiliary Power Unit (APU) (OSIP 002-12)</i>	- / 0.000	- / -	- / 3.247	- / 6.950	- / -	- / 6.950	- / 8.480	- / 10.471	- / 4.148	- / -	- / -	- / 33.296	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 3.247	- / 6.950	- / -	- / 6.950	- / 8.480	- / 10.471	- / 4.148	- / -	- / -	- / 33.296	
Total													
Total Cost (Procurement + Support + Installation)	19.659	4.900	13.590	23.875	-	23.875	26.117	18.434	5.301	-	-	111.876	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 7 / Auxiliary Power Unit (APU) (OSIP 002-12)

Modification Item 1 of 1: Auxiliary Power Unit (APU) (OSIP 002-12)

Manufacturer Information

Manufacturer Name: APU A Kit/L-3	Manufacturer Location: Waco, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2016	Mar 2016	Nov 2016	Nov 2017	Nov 2018		
Delivery Dates	Jan 2017	Mar 2017	Nov 2017	Nov 2018	Nov 2019		

Manufacturer Name: APU Training Equipment/Hamilton-Sunstrand	Manufacturer Location: San Diego, CA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016					
Delivery Dates		Mar 2017					

Installation Information

Method of Implementation: Drive In:: Installation Name: APU Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	1 / 2.047	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / 2.047
FY 2015	- / -	- / -	- / -	1 / 2.090	- / -	1 / 2.090	- / -	- / -	- / -	- / -	- / -	1 / 2.090
FY 2016	- / -	- / -	- / -	2 / 4.260	- / -	2 / 4.260	- / -	- / -	- / -	- / -	- / -	2 / 4.260
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	4 / 8.480	- / -	- / -	- / -	- / -	4 / 8.480
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 10.471	- / -	- / -	- / -	5 / 10.471
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.148	- / -	- / -	2 / 4.148
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 2.047	3 / 6.350	- / -	3 / 6.350	4 / 8.480	5 / 10.471	2 / 4.148	- / -	- / -	15 / 31.496

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	1	-	1	1	1	2	1	1	-	4	1	-	-	1	1	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	1	1	-	2	-	-	2	1	-	1	2	2	1	-	1	1	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 7 / Auxiliary Power Unit (APU) (OSIP 002-12)

Modification Item 1 of 1: Auxiliary Power Unit (APU) (OSIP 002-12)

Installation Information

Method of Implementation: Drive In:: Installation Name: Training

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	1 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / 1.200
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	2 / 0.600	- / -	2 / 0.600	- / -	- / -	- / -	- / -	- / -	2 / 0.600
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 1.200	2 / 0.600	- / -	2 / 0.600	- / -	- / -	- / -	- / -	- / -	3 / 1.800

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Out	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3

Method of Implementation (Organic): APU Equipment **Installation Quantity:** 15

Method of Implementation (Organic): APU Generator **Installation Quantity:** 15

Footnotes:

- (40) 1 A kit bought in PY and 1 A Kit bought in FY15 due to 365 day lead time. FY16 Congressional Mark reduced authorized number of A kits from 5 to 2 in FY16. (Reduced by 4.766). FY17-FY19 unit changes due to adjusted schedule.
- (41) Installation Kits N/R cost in FY14 is to support the kit contract award. FY15-FY17 Non-recurring Engineering requirements result of required software change (4 year delay from prototype to production).
- (42) PY Number of APU units ordered increased to meet schedule (500 day lead time). PB16 lines were not broken out with APU and generator (which both make up a B kit). FY15 Reduced units ordered due to ordering in prior years to meet lead time (500 days). FY17 Number of APU kits ordered decreased from 5 to 4 due to number ordered in prior year. APU installations reflect efforts accomplished on last 4 Block I aircraft and 11 MR-TCDL aircraft.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 7 / Auxiliary Power Unit (APU) (OSIP 002-12)

(43) FY15: Maintenance pubs purchased. FY16: TD bought in conjunction with A Kit. FY17: Funding to finalize maintenance pubs that were in draft since prototype which were funded under Block I OSIP (008-10). FY18: Funding to finalize operational publication that were in drafts since prototype which were also funded under Block I OSIP (008-10).

(44) PY: Due to increase of courseware, simulator, and training generator that was ordered. FY15: training decreased due to training equipment bought in prior years. FY16: Funding increased due to A kit for simulator, IAT, and 2 OFT's ordered. FY17: Reduced units to training equipment already bought. Increased funding required due to a higher price in courseware. FY18: Increase due to software upgrade to OFT and IAT in support of Prior Year Installations. FY19: Increase due to software upgrade to APU Simulator in support of Prior Year Installations.

(45) PY: Increase in Prior Years due to APU remove and replace support equipment order. FY16: Increase due to ordering Remove and Replace support equipment.

(46) FY18-19: Increase due to ECB Software Upgrade Integration technical directive.

(47) FY15: Increase due to decreased work completed in Prior Years. Other support in FY17-FY18 includes engineering & logistics support for production & training. FY17 - FY19 includes engineering and logistics support for installation. FY20: Increase due to the delay in the Install Schedule.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series			Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)					

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	4.978	25.182	32.169	37.092	-	37.092	45.090	27.719	8.533	-	-	180.763
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	4.978	25.182	32.169	37.092	-	37.092	45.090	27.719	8.533	-	-	180.763
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	4.978	25.182	32.169	37.092	-	37.092	45.090	27.719	8.533	-	-	180.763
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Family of Advanced Beyond-Line-of-Sight Terminals/Presidential and National Voice Conferencing (FAB-T/PNVC) replaces obsolete Military Strategic Tactical Relay terminals with improved FAB-T and upgrades with PNVC (includes Red Switch (RS)).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PNVC lab kit buy in FY15 and install in FY16. FAB-T lab kit buy and install in FY16. Non-Recurring Engineering (NRE) in FY15-FY20; NRE kit buy in FY16, NRE kit install in FY17, NRE Testing in FY17, and enterprise-wide follow-on test and evaluation in FY19; production kit buys in FY16-FY19, with installs in FY17-FY20.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)				
Models of Systems Affected: E-6 Series				Modification Type: TBD				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total		
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>		
Procurement														
<i>Modification Item 1 of 1: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)</i>														
A Kits														
Recurring														
1.1.1) FAB-T - NonOrganic	- / -	- / -	2 / 1.018	6 / 3.114	- / -	6 / 3.114	6 / 3.176	2 / 1.080	- / -	- / -	- / -	16 / 8.388		
1.1.2) PNVC - NonOrganic	- / -	- / -	2 / 1.366	6 / 0.234	- / -	6 / 0.234	6 / 0.238	2 / 0.081	- / -	- / -	- / -	16 / 1.919		
1.1.3) RS A KIT - Organic	- / -	- / -	- / -	6 / 3.867	- / -	6 / 3.867	6 / 3.596	2 / 1.175	- / -	- / -	- / -	14 / 8.638		
Subtotal: Recurring	- / 0.000	- / -	- / 2.384	- / 7.215	- / -	- / 7.215	- / 7.010	- / 2.336	- / -	- / -	- / -	- / 18.945		
Non-Recurring														
1.2.1) Install Kits N/R - Organic	- / 3.838	- / 18.640	- / 9.853	- / 8.593	- / -	- / 8.593	- / 2.317	- / 2.139	- / 1.399	- / -	- / -	- / 46.779		
Subtotal: Non-Recurring	- / 3.838	- / 18.640	- / 9.853	- / 8.593	- / -	- / 8.593	- / 2.317	- / 2.139	- / 1.399	- / -	- / -	- / 46.779		
B Kits														
Recurring														
2.1.1) FAB-T - Organic	- / -	- / -	2 / 0.672	6 / 2.055	- / -	6 / 2.055	6 / 2.096	2 / 0.713	- / -	- / -	- / -	16 / 5.536		
2.1.2) PNVC - Organic	- / -	- / -	2 / 2.800	- / -	- / -	- / -	12 / 3.176	2 / 0.540	- / -	- / -	- / -	16 / 6.516		
2.1.3) RS B KIT - NonOrganic	- / -	- / -	- / -	6 / 7.108	- / -	6 / 7.108	6 / 8.118	2 / 2.757	- / -	- / -	- / -	14 / 17.983		
2.1.4) Lab - FAB-T - NonOrganic	- / -	- / -	1 / 0.311	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.311		
2.1.5) Lab - PNVC - NonOrganic	- / -	1 / 0.358	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.358		
Subtotal: Recurring	- / 0.000	- / 0.358	- / 3.783	- / 9.163	- / -	- / 9.163	- / 13.390	- / 4.010	- / -	- / -	- / -	- / 30.704		
Subtotal: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)	- / 3.838	1 / 18.998	9 / 16.020	30 / 24.971	- / -	30 / 24.971	42 / 22.717	12 / 8.485	- / 1.399	- / -	- / -	94 / 96.428		
Subtotal: Procurement, All Modification Items	- / 3.838	- / 18.998	- / 16.020	- / 24.971	- / -	- / 24.971	- / 22.717	- / 8.485	- / 1.399	- / -	- / -	- / 96.428		
Support (All Modification Items)														
3.1) Engineering Change Order	- / -	- / -	- / -	- / 0.240	- / -	- / 0.240	- / 0.094	- / 0.046	- / -	- / -	- / -	- / 0.380		
3.2) Data	- / 0.132	- / 0.951	- / 0.968	- / 1.000	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / 3.051		
3.3) Training	- / -	- / -	1 / 8.361	- / 0.381	- / -	- / 0.381	1 / 5.755	- / 3.900	- / -	- / -	- / -	2 / 18.397		
3.4) Support Equipment	- / 0.008	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.008		
3.5) ILS	- / -	- / 1.233	- / 1.255	- / 0.457	- / -	- / 0.457	- / 0.135	- / 0.138	- / 0.141	- / -	- / -	- / 3.359		
3.6) Other Support ⁽⁴⁸⁾	- / 1.000	- / 4.000	- / 4.251	- / 7.317	- / -	- / 7.317	- / 7.327	- / 5.932	- / 4.130	- / -	- / -	- / 33.957		
Subtotal: Support	- / 1.140	- / 6.184	- / 14.835	- / 9.395	- / -	- / 9.395	- / 13.311	- / 10.016	- / 4.271	- / -	- / -	- / 59.152		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Models of Systems Affected: E-6 Series	Modification Type: TBD	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Installation												
<i>Modification Item 1 of 1:</i> Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)	- / 0.000	- / -	- / 1.314	- / 2.726	- / -	- / 2.726	- / 9.062	- / 9.218	- / 2.863	- / -	- / -	- / 25.183
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 1.314	- / 2.726	- / -	- / 2.726	- / 9.062	- / 9.218	- / 2.863	- / -	- / -	- / 25.183
Total												
Total Cost (Procurement + Support + Installation)	4.978	25.182	32.169	37.092	-	37.092	45.090	27.719	8.533	-	-	180.763

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Modification Item 1 of 1: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Manufacturer Information

Manufacturer Name: FAB-T & PNVC Lab Kit/Special Communications Mission Solutions	Manufacturer Location: Patuxent River, MD
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jun 2015	Jun 2016					
Delivery Dates	Jun 2016	Jun 2017					

Manufacturer Name: FAB-T, PNVC & RS Kit/Multiple	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Nov 2015	Nov 2016	Nov 2017	Nov 2018		
Delivery Dates		Nov 2016	Nov 2017	Nov 2018	Nov 2019		

Manufacturer Name: FAB-T & PNVC Training Equip/TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 20

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Feb 2016		Jan 2018			
Delivery Dates		Oct 2017		Sep 2019			

Installation Information

Method of Implementation: Drive-In Modification:: Installation Name: FAB-T

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	2 / 1.319	- / -	2 / 1.319	- / -	- / -	- / -	- / -	- / -	2 / 1.319
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 4.015	- / -	- / -	- / -	- / -	6 / 4.015
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 4.076	- / -	- / -	- / -	6 / 4.076
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.379	- / -	- / -	2 / 1.379
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 1.319	- / -	2 / 1.319	6 / 4.015	6 / 4.076	2 / 1.379	- / -	- / -	16 / 10.789

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Modification Item 1 of 1: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Installation Information

Method of Implementation: Drive-In Modification:: Installation Name: FAB-T

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	1	-	1	-	2	1	2	1	3	1	1	1	2	-	-	-	-	-	-	-	-	-	16
Out	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	2	2	2	1	2	2	1	2	-	-	-	-	-	-	-	-	16

Method of Implementation: Drive In:: Installation Name: PNVC

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	2 / 1.407	- / -	2 / 1.407	- / -	- / -	- / -	- / -	- / -	2 / 1.407
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.721	- / -	- / -	- / -	- / -	6 / 1.721
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.747	- / -	- / -	- / -	6 / 1.747
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.591	- / -	- / -	2 / 0.591
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 1.407	- / -	2 / 1.407	6 / 1.721	6 / 1.747	2 / 0.591	- / -	- / -	16 / 5.466

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	1	-	1	-	2	1	2	1	3	1	1	1	2	-	-	-	-	-	-	-	-	16
Out	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	2	2	2	1	2	2	1	2	-	-	-	-	-	-	-	16

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Modification Item 1 of 1: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Installation Information

Method of Implementation: Drive In:: Installation Name: RS B KIT

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.576	- / -	- / -	- / -	- / -	6 / 2.576
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.628	- / -	- / -	- / -	6 / 2.628
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.893	- / -	- / -	2 / 0.893
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.576	6 / 2.628	2 / 0.893	- / -	- / -	14 / 6.097

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2	1	3	1	1	1	2	-	-	-	-	-	-	-	-	14
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	1	2	2	1	2	-	-	-	-	-	-	-	14

Method of Implementation: Drive-In Modification:: Installation Name: Lab - FAB-T

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	1 / 0.558	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.558
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Modification Item 1 of 1: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Installation Information

Method of Implementation: Drive-In Modification:: Installation Name: Lab - FAB-T

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 0.558	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.558

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Method of Implementation: Drive-In Modification:: Installation Name: Lab - PNVC

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	1 / 0.756	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.756
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 0.756	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.756

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Modification Item 1 of 1: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Installation Information

Method of Implementation: Drive-In Modification:: Installation Name: Lab - PNVC

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Method of Implementation: Drive-In Modification:: Installation Name: Training

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.750	- / -	- / -	- / -	- / -	1 / 0.750
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.767	- / -	- / -	- / -	1 / 0.767
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.750	1 / 0.767	- / -	- / -	- / -	2 / 1.517

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2

Method of Implementation (Organic): RS A KIT

Installation Quantity: 14

Method of Implementation (Organic): FAB-T

Installation Quantity: 16

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 8 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Modification Item 1 of 1: Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

Installation Information

Method of Implementation (Organic): PNVC	Installation Quantity: 16
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Footnotes:

⁽⁴⁸⁾ Other Support costs in FY16-FY17 includes engineering and logistics support for NRE, production, installation, and test. Other Support costs in FY19 includes engineering and logistics support for production, installation, and specialized enterprise-wide flight follow-on test and evaluation. Other Support costs in FY19 and FY20 includes engineering and logistics support for production and installation.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 9 / Inactive OSIPS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	31.016	-	-	-	-	-	-	-	-	-	-	31.016
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	31.016	-	-	-	-	-	-	-	-	-	-	31.016
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	31.016	-	-	-	-	-	-	-	-	-	-	31.016
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 9 / Inactive OSIPS			
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: N/A</i>													
<i>Subtotal: N/A</i>													
<i>Subtotal: Procurement, All Modification Items</i>													
Support (All Modification Items)													
3.2) Data	- / 0.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.003	
3.4) Support Equipment	27 / 11.943	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 11.943	
3.6) Other Support	- / 19.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.070	
<i>Subtotal: Support</i>	<i>- / 31.016</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 31.016</i>	
Installation													
<i>Subtotal: Installation</i>													
Total													
Total Cost (Procurement + Support + Installation)	31.016	-	-	-	-	-	-	-	-	-	-	31.016	

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 9 / Inactive OSIPS
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Modification Item 1 of 1: N/A

Manufacturer Information

Manufacturer Name: N/A	Manufacturer Location: N/A
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Administrative Leadtime (in Months):	Production Leadtime (in Months):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Support Only Installation	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	628.427	68.128	66.624	66.835	-	66.835	61.638	50.275	19.225	18.092	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	628.427	68.128	66.624	66.835	-	66.835	61.638	50.275	19.225	18.092	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	628.427	68.128	66.624	66.835	-	66.835	61.638	50.275	19.225	18.092	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the (11) VH-3D, (8) VH-60N, (1) UH-3D, and (1) UH-60N. These aircraft are assigned to Marine Helicopter Squadron One to support the President of the United States. The VH-60N Cockpit Upgrade consists of an upgrade to all-glass instrumentation and an Integrated Standby Instrument System. The Communication Suite Upgrade consists of the incorporation of the Wide Band Line of Sight capability. The Structural Enhancement OSIP incorporates a Service Life Extension Program on the VH-3D and VH-60N. The Obsolescence Management Program will manage impending Executive Helicopter obsolescence issues. A variety of factors will be addressed including communication, navigation, operational weight, safety, and engine upgrades to remain mission relevant. Under the Trainer Conversion OSIP, an H-3 and H-60 will be converted to a UH-3D and UH-60N to reduce usage on the VH-3D and VH-60N. This reduction in utilization provides for better availability and enhanced sustainability. The VH-3D Cockpit Upgrade consists of upgrades to incorporate night vision compatibility and related cockpit lighting, GPS moving maps, and a satellite weather feed. The overall goals of the modifications budgeted in FY17 are to continue procurement efforts in accordance with the procurement strategy to maintain the VH-3D and VH-60N until the VH-92A Replacement Helicopter becomes fully operational. The VH-92A Improvement Program provides for the management, preparation, and incorporation of Engineering Change Proposals (ECP) and the implementation of those changes to sustain and improve VH-92A operations.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0566 / Executive Helicopters Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / VH-60N COCKPIT UPGRADE (OSIP 009-02) (SAFETY)			- / 163.027	- / 5.791	- / 2.320	- / -	- / -	- / -
P-3a	2 / VH COMM UPGRADE (OSIP 014-02) (SAFETY)			- / 96.249	- / 1.799	- / 18.568	- / 22.366	- / -	- / 22.366
P-3a	3 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08) (SAFETY)			- / 17.277	- / 3.400	- / 2.502	- / 2.209	- / -	- / 2.209
P-3a	4 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09) (SAFETY)			- / 80.613	- / 36.221	- / 30.530	- / 28.312	- / -	- / 28.312
P-3a	5 / VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11) (SAFETY)			- / 39.275	- / 16.455	- / 2.829	- / -	- / -	- / -
P-3a	6 / VH-3D COCKPIT UPGRADE (OSIP 010-12) (SAFETY)			- / 27.563	- / 4.462	- / 9.875	- / 13.948	- / -	- / 13.948
P-3a	7 / VH-92A IMPROVEMENT PROGRAM (OSIP 001-20) (SAFETY)			- / 0.000	- / -	- / -	- / -	- / -	- / -
P-3a	8 / Inactive OSIPs (SAFETY)			- / 204.423	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 628.427	- / 68.128	- / 66.624	- / 66.835	- / -	- / 66.835

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / VH-60N COCKPIT UPGRADE (OSIP 009-02) (SAFETY)			- / -	- / -	- / -	- / -	- / -	- / 171.138
P-3a	2 / VH COMM UPGRADE (OSIP 014-02) (SAFETY)			- / 38.349	- / 31.080	- / 6.553	- / -	- / -	- / 214.964
P-3a	3 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08) (SAFETY)			- / 2.931	- / 2.744	- / 4.695	- / 1.390	- / 2.406	- / 39.554
P-3a	4 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09) (SAFETY)			- / 10.210	- / 7.868	- / -	- / -	- / -	- / 193.754
P-3a	5 / VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11) (SAFETY)			- / -	- / -	- / -	- / -	- / -	- / 58.559
P-3a	6 / VH-3D COCKPIT UPGRADE (OSIP 010-12) (SAFETY)			- / 10.148	- / 8.583	- / -	- / -	- / -	- / 74.579
P-3a	7 / VH-92A IMPROVEMENT PROGRAM (OSIP 001-20) (SAFETY)			- / -	- / -	- / 7.977	- / 16.702	Continuing	Continuing
P-3a	8 / Inactive OSIPs (SAFETY)			- / -	- / -	- / -	- / -	- / -	- / 204.423
P-40	Total Gross/Weapon System Cost			- / 61.638	- / 50.275	- / 19.225	- / 18.092	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

Changes from PB16 to PB17 result from changes in strategy to achieve project affordability and speed to the fleet. Changes include the scope changes to the Obsolescence Management Program to exclude the Avionics Upgrades, and to include the Fuel Upgrades as part of the Cabin Interior weight reduction effort. Fuel Upgrades were previously part of the Service Life Extension Program. This budget accelerates the schedule of the Wide Band Line of Sight (WBLoS) effort due to user requirements. The procurement for the upgrade of the VH-3D Cabin Interior has been accelerated for concurrency with the WBLoS effort. Concurrency is necessary to reduce aircraft weight, maintaining aircraft safety and passenger capacity. Installation methods for both WBLoS and VH-3D Cabin Interior have changed to the use of a field modification team rather than installation during depot maintenance, saving cost and schedule. The VH-3D Cockpit Upgrade scope of effort has been revised to deliver the minimum user requirements to the fleet, accelerating the schedule.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 1 / VH-60N COCKPIT UPGRADE (OSIP 009-02)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	163.027	5.791	2.320	-	-	-	-	-	-	-	-	171.138
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	163.027	5.791	2.320	-	-	-	-	-	-	-	-	171.138
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	163.027	5.791	2.320	-	-	-	-	-	-	-	-	171.138
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: In order to meet the requirement of providing safe and timely transportation for the President, Vice President, and other parties as directed by the Director of the White House Military Office (WHMO), and in support of the alert and contingency mission requirement of the WHMO Operations Plan, the VH-60N aircraft cockpit is being upgraded to provide enhanced communication, navigation, and survivability capabilities while reducing pilot workload. Communication capabilities must be consistent with White House Communications Agency (WHCA) planning and National Security Agency requirements. Three Ultra High Frequency/Very High Frequency/Frequency Modulation (FM) radios (ARC-210s) are included. Two FM radios and the High Frequency with ALE currently on the VH-60N must be maintained. A coupled autopilot function has been incorporated into the cockpit management system. Preplanned Product Improvement (P3I) includes Digital Map, Ground Proximity Warning System, Communication, Navigation and Surveillance/ Air Traffic Management, and GPS Non-precision approach (Required Navigation Performance/Required Navigation). Preplanned Product Improvement (P3I) includes both hardware as well as the necessary changes to the Operational Flight Plan Software to support the Cockpit Upgrade Program. Additional funding was added in FY15 and FY16 to implement a new Integrated Standby Instrument System (IS-IS). This funding will support IS-IS integration testing, P3I software integration, as well as field activity support for fielding IS-IS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Initial Operating Capability was achieved in February 2010. P3I hardware efforts began in FY09 and finished in FY14. Funding in FY15 and FY16 will implement and field IS-IS.

Notes:

1. The VH-60 Standby Instruments will be installed at O-Level by the squadron.
2. The Other Support funding in FY16 is in support of the implementation of the new Integrated Standby Instrument System as well as the completion of the P3I Software upgrade integration.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 1 / VH-60N COCKPIT UPGRADE (OSIP 009-02)			
Models of Systems Affected: VH-60N					Modification Type: SAFETY					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: VH-60N COCKPIT UPGRADE (OSIP 009-02)</i>													
A Kits													
Recurring													
1.1.1) Archived A Kits - Organic	8 / 8.371	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 8.371	
1.1.2) VH-60N Standby Instruments - Organic ⁽¹⁾	- / -	4 / 0.400	4 / 0.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.808	
1.1.3) Archived Prior Year Installations - Organic	8 / 18.202	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 18.202	
Subtotal: Recurring	- / 26.573	- / 0.400	- / 0.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.381	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 34.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.031	
Subtotal: Non-Recurring	- / 34.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.031	
B Kits													
Recurring													
2.1.1) Archived B Kits - Organic	- / 12.680	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.680	
2.1.2) VH-60N Standby Instruments - Organic	- / -	4 / 0.300	4 / 0.306	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.606	
Subtotal: Recurring	- / 12.680	- / 0.300	- / 0.306	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.286	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 21.888	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.888	
Subtotal: Non-Recurring	- / 21.888	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.888	
Subtotal: VH-60N COCKPIT UPGRADE (OSIP 009-02)	16 / 95.172	8 / 0.700	8 / 0.714	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 96.586	
Subtotal: Procurement, All Modification Items	- / 95.172	- / 0.700	- / 0.714	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 96.586	
Support (All Modification Items)													
3.2) Preplanned Prod Improvement (ECO)	- / 11.658	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.658	
3.3) Data	- / 14.044	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.044	
3.4) Training Equipment	- / 15.100	- / 1.774	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.874	
3.5) Support Equipment	- / 1.052	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.052	
3.6) ILS	- / 0.556	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.556	
3.7) Other Support ⁽²⁾	- / 145.445	- / 13.317	- / 11.606	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 150.368	
Subtotal: Support	- / 67.855	- / 5.091	- / 11.606	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 74.552	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series						Modification Number / Title: 1 / VH-60N COCKPIT UPGRADE (OSIP 009-02)			
Models of Systems Affected: VH-60N				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Total													
Total Cost (Procurement + Support + Installation)		163.027	5.791	2.320	-	-	-	-	-	-	-	171.138	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 1 / VH-60N COCKPIT UPGRADE (OSIP 009-02)

Modification Item 1 of 1: VH-60N COCKPIT UPGRADE (OSIP 009-02)

Manufacturer Information

Manufacturer Name: Sikorsky Aircraft Corporation				Manufacturer Location: Stratford, CT			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 13			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Archived A Kits	Installation Quantity: 8
Method of Implementation (Organic): VH-60N Standby Instruments	Installation Quantity: 8
Method of Implementation (Organic): Archived Prior Year Installations - Not Installed	Installation Quantity: 8
Method of Implementation (Organic): VH-60N Standby Instruments	Installation Quantity: 8

Footnotes:

- (1) The VH-60 Standby Instruments will be installed at O-level by the squadron.
- (2) The Other Support funding in FY16 is in support of the implementation of the new Integrated Standby Instrument System as well as the completion of the P3I Software upgrade integration.

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Exhibit P-3a, Individual Modification: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 2 / VH COMM UPGRADE (OSIP 014-02)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	96.249	1.799	18.568	22.366	-	22.366	38.349	31.080	6.553	-	-	214.964
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	96.249	1.799	18.568	22.366	-	22.366	38.349	31.080	6.553	-	-	214.964
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	96.249	1.799	18.568	22.366	-	22.366	38.349	31.080	6.553	-	-	214.964

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The White House Military Office (WHMO) has directed that Very High Frequency Frequency Modulation (FM) radios operate in the APCO-25 digital mode. The FM (YZ) radio replacement is required in order to have a redundant secure voice capability to address the obsolescence of the YZ radio system employed by the White House Communications Agency (WHCA). An upgrade to all radios is required to maintain crypto security requirements. Required upgrades vary from software/firmware modifications to the replacement of multiple radios on the VH-3D/VH-60N. Additionally, in support of the Senior Leaders Communications, a Wideband Line of Sight (WBLoS) system is required. A new radio, antenna, associated accessories, aircraft Operational Flight Programs (OFP) and aircraft integration will be required for this effort and procurement efforts began in FY16. Phase III of the four phase WBLoS effort will begin in FY17 and includes the NRE for an upgraded software OFP that will provide the capability for a single WBLoS Terminal to communicate with more than one Ground Entry Point (GEP) at a time in order to minimize transition time between GEPs. It will also include the testing and verification of that software. Phase IV includes the NRE for an upgraded software OFP as well as a network upgrade to reduce anticipated packet routing delays due to limitations of OSPF (Open Shortest Path First) protocol when transitioning from GEP to GEP. This effort will also include upgrading the entire network to support the VH requirement of seamless transitions between GEPs. Development and deployment of enhanced capabilities through phases (via software and modifications to the radio and/ or ground equipment) continue after initial installations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: In FY13, the DEPSECDEF initiated the requirement for the Wide Band Line of Sight capability. Research and development efforts began in FY14 for this effort; the procurement efforts began in FY16.

Notes:

1. FY16 NRE includes the Val/Ver kits and installs for the VH-3D and VH-60 WBLoS Effort. One (1) A-Kit and one (1) B-kit per aircraft series is included for a total of two (2) A-kits and two (2) B-kits. The Val/Ver will occur in 3rd Quarter FY16.
2. The Communication Upgrade (WBLoS) A-kits will be installed via a contractor field modification team and will begin installing in FY17.
3. The Communication Upgrade (WBLoS) B-kits will be installed at O-level by the squadron at HMX-1 as aircraft are available starting in FY17.
4. FY16 NRE includes the stand-up cost for the WBLoS install team.
5. The increase in Support Equipment in FY16 is for equipment to support the integration acceptance testing of the WBLoS system.
6. The increase in Training Equipment in FY17 is for updates to software for the trainers for WBLoS. The increase in FY18 is for WBLoS A and B kit procurement for the trainer aircraft. One (1) each UH-3D A and B kit and one (1) each UH-60N A and B kit will be procured.
7. Software in FY17 through FY20 funds Phase III and IV of the WBLoS effort, which includes software and satellite integration.
8. The increase in data in FY17 is for the publications and technical data upgrades associated with the WBLoS effort.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 2 / VH COMM UPGRADE (OSIP 014-02)			
Models of Systems Affected: VH-60N/VH-3D				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: VH COMM UPGRADE (OSIP 014-02)</i>													
A Kits													
Recurring													
1.1.1) Crypto-ARC-210 VH-3D - NonOrganic	11 / 0.674	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.674	
1.1.2) Archived A Kits - Organic	96 / 4.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	96 / 4.025	
1.1.3) VH-3D Communication Upgrade (WBLoS) - NonOrganic ⁽³⁾	- / -	- / -	6 / 0.090	5 / 0.075	- / -	5 / 0.075	- / -	- / -	- / -	- / -	- / -	11 / 0.165	
1.1.4) VH-60 Communication Upgrade (WBLoS) - NonOrganic	- / -	- / -	6 / 0.090	2 / 0.030	- / -	2 / 0.030	- / -	- / -	- / -	- / -	- / -	8 / 0.120	
<i>Subtotal: Recurring</i>	<i>- / 4.699</i>	<i>- / -</i>	<i>- / 0.180</i>	<i>- / 0.105</i>	<i>- / -</i>	<i>- / 0.105</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 4.984</i>	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 12.471	- / -	- / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.516	
<i>Subtotal: Non-Recurring</i>	<i>- / 12.471</i>	<i>- / -</i>	<i>- / 0.045</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 12.516</i>	
B Kits													
Recurring													
2.1.1) Archived B Kit - Organic	127 / 15.065	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	127 / 15.065	
2.1.2) Archived Prior Year Installations - Organic	- / 4.950	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.950	
2.1.3) VH-3D Communications Equipment Upgrade (WBLoS) - Organic ⁽⁴⁾	- / -	- / -	6 / 3.210	5 / 2.720	- / -	5 / 2.720	- / -	- / -	- / -	- / -	- / -	11 / 5.930	
2.1.4) VH-60N Communications Equipment Upgrade (WBLoS) - Organic	- / -	- / -	6 / 3.210	2 / 1.088	- / -	2 / 1.088	- / -	- / -	- / -	- / -	- / -	8 / 4.298	
<i>Subtotal: Recurring</i>	<i>- / 20.015</i>	<i>- / -</i>	<i>- / 6.420</i>	<i>- / 3.808</i>	<i>- / -</i>	<i>- / 3.808</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 30.243</i>	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽⁵⁾	- / 14.074	- / 0.200	- / 4.945	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.219	
<i>Subtotal: Non-Recurring</i>	<i>- / 14.074</i>	<i>- / 0.200</i>	<i>- / 4.945</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 19.219</i>	
<i>Subtotal: VH COMM UPGRADE (OSIP 014-02)</i>	<i>234 / 51.259</i>	<i>- / 0.200</i>	<i>24 / 11.590</i>	<i>14 / 3.913</i>	<i>- / -</i>	<i>14 / 3.913</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>272 / 66.962</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 51.259</i>	<i>- / 0.200</i>	<i>- / 11.590</i>	<i>- / 3.913</i>	<i>- / -</i>	<i>- / 3.913</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 66.962</i>	
Support (All Modification Items)													
3.2) Archived Engineering Change Orders	- / 2.576	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.576	
3.3) Data ⁽⁶⁾	- / 17.061	- / -	- / 0.250	- / 12.000	- / -	- / 12.000	- / 10.900	- / 10.825	- / 0.500	- / -	- / -	- / 11.536	
3.4) Software ⁽⁷⁾	- / -	- / -	- / -	- / 16.559	- / -	- / 16.559	- / 27.766	- / 22.807	- / 3.431	- / -	- / -	- / 60.563	
3.5) Training Equipment ⁽⁸⁾	- / 1.204	- / 0.610	- / -	- / 1.600	- / -	- / 1.600	- / 2.448	- / 1.315	- / 0.850	- / -	- / -	- / 8.027	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 2 / VH COMM UPGRADE (OSIP 014-02)			
Models of Systems Affected: VH-60N/VH-3D				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
3.6) Support Equipment ⁽⁹⁾	- / 3.259	- / -	- / 2.000	- / 0.780	- / -	- / 0.780	- / 0.525	- / 0.325	- / -	- / -	- / -	- / 6.889	
3.8) Other Support	- / 29.637	- / 0.989	- / 4.728	- / 5.294	- / -	- / 5.294	- / 5.394	- / 5.808	- / 1.772	- / -	- / -	- / 53.622	
<i>Subtotal: Support</i>	- / 43.737	- / 1.599	- / 6.978	- / 16.233	- / -	- / 16.233	- / 37.033	- / 31.080	- / 6.553	- / -	- / -	- / 143.213	
Installation													
<i>Modification Item 1 of 1:</i> VH COMM UPGRADE (OSIP 014-02)	- / 1.253	- / -	- / -	- / 2.220	- / -	- / 2.220	- / 1.316	- / -	- / -	- / -	- / -	- / 4.789	
<i>Subtotal: Installation</i>	- / 1.253	- / -	- / -	- / 2.220	- / -	- / 2.220	- / 1.316	- / -	- / -	- / -	- / -	- / 4.789	
Total													
Total Cost (Procurement + Support + Installation)	96.249	1.799	18.568	22.366	-	22.366	38.349	31.080	6.553	-	-	214.964	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 2 / VH COMM UPGRADE (OSIP 014-02)

Modification Item 1 of 1: VH COMM UPGRADE (OSIP 014-02)

Manufacturer Information

Manufacturer Name: Sikorsky Aircraft Corp	Manufacturer Location: Stratford, CT
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: Lockheed Martin	Manufacturer Location: Patuxent River, MD
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jul 2016	Jul 2017				
Delivery Dates		Oct 2016	Oct 2017				

Manufacturer Name: Lockheed Martin	Manufacturer Location: Patuxent River, MD
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jul 2016	Jul 2017				
Delivery Dates		Jan 2017	Jan 2018				

Installation Information

Method of Implementation: [none specified]:: Installation Name: Crypto-ARC-210 VH-3D

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 1.253	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	11 / 1.253
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 1.253	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 1.253

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 2 / VH COMM UPGRADE (OSIP 014-02)

Modification Item 1 of 1: VH COMM UPGRADE (OSIP 014-02)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Crypto-ARC-210 VH-3D

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	10	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: Contractor Field Mod - Team:: Installation Name: VH-3D Communication Upgrade (WBLoS)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	6 / 1.110	- / -	6 / 1.110	- / -	- / -	- / -	- / -	- / -	6 / 1.110
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.940	- / -	- / -	- / -	- / -	5 / 0.940
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	6 / 1.110	- / -	6 / 1.110	5 / 0.940	- / -	- / -	- / -	- / -	11 / 2.050

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	1	2	2	1	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	1	2	2	1	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-60 Communication Upgrade (WBLoS)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 2 / VH COMM UPGRADE (OSIP 014-02)

Modification Item 1 of 1: VH COMM UPGRADE (OSIP 014-02)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-60 Communication Upgrade (WBLoS)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	6 / 1.110	- / -	6 / 1.110	- / -	- / -	- / -	- / -	- / -	6 / 1.110
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.376	- / -	- / -	- / -	- / -	2 / 0.376
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	6 / 1.110	- / -	6 / 1.110	2 / 0.376	- / -	- / -	- / -	- / -	8 / 1.486

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	2	2	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	-	-	-	-	-	-	-	-	-	2	2	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8

Method of Implementation (Organic): Archived A Kits **Installation Quantity:** 96

Method of Implementation (Organic): Archived B Kit - Not Installed **Installation Quantity:** 127

Method of Implementation (Organic): VH-3D Communications Equipment Upgrade (WBLoS) **Installation Quantity:** 11

Method of Implementation (Organic): VH-60N Communications Equipment Upgrade (WBLoS) **Installation Quantity:** 8

Footnotes:

- (3) The WBLoS A-kits will be installed via a contractor field modification team and will begin installing in FY17.
- (4) The WBLoS B-kits will be installed at O-level by the squadron at HMX-1 as aircraft are available starting in FY17.
- (5) FY16 NRE includes the Validation/Verification kits and installations for the VH-3D and VH-60 WBLoS effort. One (1) A-kit and one (1) B-kit per aircraft series is included for a total of two (2) A-kits and two (2) B-kits. The Val/Ver will occur in 3rd Quarter FY16. FY16 NRE also includes the stand-up costs for the WBLoS contractor installation team.
- (6) The increase in data in FY17 is for the publications and technical data upgrades associated with the WBLoS effort.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 2 / VH COMM UPGRADE (OSIP 014-02)

- (7) Software in FY17 through FY20 funds Phase III and IV of the WBLoS effort, which is for software and satellite integration.
- (8) The increase in Training Equipment in FY17 is for updates to software for the trainers for WBLoS. The FY18 Training Equipment is for A and B kit procurement for the trainer aircraft. One (1) each UH-3D A and B kit and one (1) each UH-60N A and B kit will be procured.
- (9) The increase in Support Equipment in FY16 is for equipment to support the integration acceptance testing of the WBLoS system.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 3 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	17.277	3.400	2.502	2.209	-	2.209	2.931	2.744	4.695	1.390	2.406	39.554
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	17.277	3.400	2.502	2.209	-	2.209	2.931	2.744	4.695	1.390	2.406	39.554
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	17.277	3.400	2.502	2.209	-	2.209	2.931	2.744	4.695	1.390	2.406	39.554
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The VH Structural Enhancements Program consists of the efforts necessary to extend the service lives of the VH-3D and VH-60N airframes. The VH-3D and VH-60N must stay in service to support mission needs until the fielding of the VH-92A aircraft. In order to meet the usage requirements, a Service Life Extension Program (SLEP) was established to implement upgrades identified in the Service Life Assessment Program (SLAP). The SLEP extends the service life of the VH-60N and the VH-3D by 4,000 hours.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Non-Recurring Engineering for the VH-3D and VH-60N Service Life Extensions began FY12. The VH-3D SLEP kits were procured in FY13 via a Life of Type procurement due to lack of component part availability. The first VH-60N SLEP Kit procurement contract was awarded in December 2014. Installs will follow the Special Progressive Aircraft Rework (SPAR) schedule and will begin in FY16.

Notes:

1. Installs must follow the SPAR schedule. VH-60N Kits have a 17 month production lead time. Kits must be available prior to the aircraft being inducted into SPAR.
2. The VH-3D Fuel Systems Upgrade is being performed as part of the Cabin Interior Redesign in the Obsolescence Management Program OSIP (23-09). Procurement and installation funding has moved to that OSIP.
3. Other Support across the FYDP supports the installation of the SLEP kits during SPAR. Increase in FY20 supports the final VH-3D Installations in the out years.
4. The FY16 NRE includes the Validation installations for the first VH-3D and VH-60 SLEP kits.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 3 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)			
Models of Systems Affected: VH-3D/VH-60N				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)</i>													
A Kits													
Recurring													
1.1.1) VH-60N SLEP Kits - NonOrganic	- / -	1 / 0.074	1 / 0.025	1 / 0.025	- / -	1 / 0.025	2 / 0.051	2 / 0.051	1 / 0.026	- / -	- / -	8 / 0.252	
1.1.2) VH-3D SLEP Kits - NonOrganic	11 / 0.896	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.896	
Subtotal: Recurring	- / 0.896	- / 0.074	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.051	- / 0.051	- / 0.026	- / -	- / -	- / 1.148	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽¹⁰⁾	- / 6.653	- / 0.585	- / 1.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.788	
Subtotal: Non-Recurring	- / 6.653	- / 0.585	- / 1.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.788	
B Kits													
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 0.803	- / 1.335	- / 0.115	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.253	
Subtotal: Non-Recurring	- / 0.803	- / 1.335	- / 0.115	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.253	
Subtotal: VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)	11 / 8.352	1 / 1.994	1 / 1.690	1 / 0.025	- / -	1 / 0.025	2 / 0.051	2 / 0.051	1 / 0.026	- / -	- / -	19 / 12.189	
Subtotal: Procurement, All Modification Items	- / 8.352	- / 1.994	- / 1.690	- / 0.025	- / -	- / 0.025	- / 0.051	- / 0.051	- / 0.026	- / -	- / -	- / 12.189	
Support (All Modification Items)													
3.4) Support Equipment	- / -	- / 0.678	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.678	
3.5) ILS	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	
3.7) Other Support ⁽¹¹⁾	- / 8.825	- / 0.728	- / 0.812	- / 0.890	- / -	- / 0.890	- / 0.816	- / 0.773	- / 1.940	- / -	- / -	- / 14.784	
Subtotal: Support	- / 8.925	- / 1.406	- / 0.812	- / 0.890	- / -	- / 0.890	- / 0.816	- / 0.773	- / 1.940	- / -	- / -	- / 15.562	
Installation													
<i>Modification Item 1 of 1: VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)</i>	- / 0.000	- / -	- / -	- / 1.294	- / -	- / 1.294	- / 2.064	- / 1.920	- / 2.729	- / 1.390	- / 2.406	- / 11.803	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 1.294	- / -	- / 1.294	- / 2.064	- / 1.920	- / 2.729	- / 1.390	- / 2.406	- / 11.803	
Total													
Total Cost (Procurement + Support + Installation)	17.277	3.400	2.502	2.209	-	2.209	2.931	2.744	4.695	1.390	2.406	39.554	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 3 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)

Modification Item 1 of 1: VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)

Manufacturer Information

Manufacturer Name: Sikorsky Aircraft Corporation - VH Service Life Extension Program VH-60N	Manufacturer Location: Stratford, CT
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 17

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Jan 2016	Dec 2016	Oct 2017	Oct 2018	Mar 2020	
Delivery Dates	Apr 2016	May 2017	Apr 2018	Feb 2019	Feb 2020	Jul 2021	

Manufacturer Name: Sikorsky Aircraft Corporation - VH Service Life Extension Program - VH-3D	Manufacturer Location: Stratford, CT
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-60N SLEP Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	1 / 0.560	- / -	1 / 0.560	- / -	- / -	- / -	- / -	- / -	1 / 0.560
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.570	- / -	- / -	- / -	- / -	1 / 0.570
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.160	- / -	- / -	- / -	2 / 1.160
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.181	- / -	- / -	2 / 1.181
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.602	- / -	1 / 0.602
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.560	- / -	1 / 0.560	1 / 0.570	2 / 1.160	2 / 1.181	1 / 0.602	- / -	7 / 4.073

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	1	-	-	1	1	-	-	-	-	1	-	7
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	1	-	-	1	1	-	-	1	7

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 3 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)

Modification Item 1 of 1: VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-3D SLEP Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	1 / 0.734	- / 0.000	1 / 0.734	2 / 1.494	1 / 0.760	2 / 1.548	1 / 0.788	3 / 2.406	10 / 7.730
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.734	- / -	1 / 0.734	2 / 1.494	1 / 0.760	2 / 1.548	1 / 0.788	3 / 2.406	10 / 7.730

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	-	-	-	1	-	1	-	-	-	1	3	10
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	-	-	-	1	-	1	-	4	10

Footnotes:

(10) The FY16 NRE includes the Validation installations for the first VH-3D and VH-60 SLEP kits.

(11) The support across the FYDP supports the installation of the SLEP kits during SPAR. The increase in FY20 supports the final VH-3D installations in the out-years.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 4 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	80.613	36.221	30.530	28.312	-	28.312	10.210	7.868	-	-	-	193.754
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	80.613	36.221	30.530	28.312	-	28.312	10.210	7.868	-	-	-	193.754
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	80.613	36.221	30.530	28.312	-	28.312	10.210	7.868	-	-	-	193.754
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: This Operational, Safety, and Improvement Program provides for the readiness of the VH-3D and VH-60N Presidential Helicopters. The projected end of service for the VH-3D and VH-60N is now expected to extend beyond 2020. Funds will be utilized to manage and prepare, process, and incorporate Engineering Change Proposals (ECP) and implement changes to sustain and improve all Executive Helicopter Series system readiness including safety, mission availability, structural integrity, component (avionics/systems) reliability, maintainability, operational weight, performance, and obsolescence conditions as they arise. This program contains the following efforts: Conversion of VH-60N engines to increase mission performance and reduce obsolescence conditions. Upgrade of Air Vehicle Support Equipment and technical data to support VH unique Air Vehicle requirements. This upgrade effort will install new operating systems, replace obsolete components and core computers, test equipment and basic test program hardware. The Cabin Interior and Environmental Control System upgrade program for the VH-3D reduces aircraft operational weight, replaces obsolete electrical components, upgrades the fuel system, and improves maintainability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: VH-3D Cabin Interior Upgrade Non-Recurring Engineering efforts began in FY14. The validation kit procurement was contracted in FY14 and will be delivered in FY16. The validation installation will be completed in FY16. Five (5) kits were contracted in FY15; four (4) are recurring kits and one (1) is the verification kit. The field mod team completing the installation of the kits and providing support will be contracted in FY16; and the verification installation and recurring installations will begin in FY17.

1. Avionics kits were eliminated because existing hardware is now considered supportable through fielding of the VH-92A.
2. VH-3D Cabin Interior Redesign A kit in FY14 is the validation kit. The NRE in FY16 includes the Validation installation effort for this kit.
3. One (1) of the five (5) VH-3D Cabin Interior Redesign A and B Kits in FY15 is the Verification kit. The NRE in FY17 includes funds for the Verification installation effort for this kit.
4. The increase in Cabin Interior Kit costs results from major components of the cabin interior being re-designed, including some structural components, and includes updates to the fuel system (previously budgeted in OSIP 16-08). These costs reflect contracted prices.
5. Cabin interior kits will be installed via a contractor field modification team at the Presidential Helicopter Support Facility in Patuxent River, MD.
6. The increase in Data in FY16 is for data and technical publications for the Engine Conversion effort. FY18 Data is for the publications and technical data for the Cabin Interior Upgrade effort.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 4 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)			
Models of Systems Affected: VH-3D/VH-60N				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)</i>													
A Kits													
Recurring													
1.1.1) Engines Kit- VH-60N - Organic	8 / 0.660	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.660	
1.1.2) VH-3D Cabin Interior Redesign Kit - NonOrganic (12)	1 / 7.806	5 / 11.233	2 / 4.700	3 / 7.167	- / -	3 / 7.167	- / -	- / -	- / -	- / -	- / -	11 / 30.906	
1.1.3) Archived A Kit - Organic	11 / 0.462	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.462	
<i>Subtotal: Recurring</i>	<i>- / 8.928</i>	<i>- / 11.233</i>	<i>- / 4.700</i>	<i>- / 7.167</i>	<i>- / -</i>	<i>- / 7.167</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 32.028</i>	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic (13)	- / 10.067	- / 4.920	- / 4.111	- / 1.876	- / -	- / 1.876	- / -	- / -	- / -	- / -	- / -	- / 20.974	
<i>Subtotal: Non-Recurring</i>	<i>- / 10.067</i>	<i>- / 4.920</i>	<i>- / 4.111</i>	<i>- / 1.876</i>	<i>- / -</i>	<i>- / 1.876</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 20.974</i>	
B Kits													
Recurring													
2.1.1) Archived B Kits - NonOrganic	24 / 8.202	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 8.202	
2.1.2) VH-3D Cabin Interior Redesign Equipment - Organic (14)	1 / 0.000	5 / 4.547	2 / 2.238	3 / 3.414	- / -	3 / 3.414	- / -	- / -	- / -	- / -	- / -	11 / 10.199	
<i>Subtotal: Recurring</i>	<i>- / 8.202</i>	<i>- / 4.547</i>	<i>- / 2.238</i>	<i>- / 3.414</i>	<i>- / -</i>	<i>- / 3.414</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 18.401</i>	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 17.197	- / 1.000	- / 3.962	- / 2.400	- / -	- / 2.400	- / -	- / -	- / -	- / -	- / -	- / 24.559	
<i>Subtotal: Non-Recurring</i>	<i>- / 17.197</i>	<i>- / 1.000</i>	<i>- / 3.962</i>	<i>- / 2.400</i>	<i>- / -</i>	<i>- / 2.400</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 24.559</i>	
<i>Subtotal: OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)</i>	<i>45 / 44.394</i>	<i>10 / 21.700</i>	<i>4 / 15.011</i>	<i>6 / 14.857</i>	<i>- / -</i>	<i>6 / 14.857</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>65 / 95.962</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 44.394</i>	<i>- / 21.700</i>	<i>- / 15.011</i>	<i>- / 14.857</i>	<i>- / -</i>	<i>- / 14.857</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 95.962</i>	
Support (All Modification Items)													
3.2) Data (15)	- / 1.331	- / 0.815	- / 1.000	- / -	- / -	- / -	- / 1.606	- / -	- / -	- / -	- / -	- / 4.752	
3.3) Training Equipment	- / 5.491	- / 1.595	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.086	
3.4) Support Equipment	- / -	- / 0.620	- / 1.489	- / 1.991	- / -	- / 1.991	- / 1.210	- / 1.318	- / -	- / -	- / -	- / 6.628	
3.5) ILS	- / 0.067	- / 0.020	- / 0.640	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.500	- / -	- / -	- / -	- / 2.227	
3.6) Other Support	- / 29.330	- / 10.215	- / 11.886	- / 9.964	- / -	- / 9.964	- / 4.894	- / 4.550	- / -	- / -	- / -	- / 70.839	
<i>Subtotal: Support</i>	<i>- / 36.219</i>	<i>- / 13.265</i>	<i>- / 15.015</i>	<i>- / 12.455</i>	<i>- / -</i>	<i>- / 12.455</i>	<i>- / 8.210</i>	<i>- / 6.368</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 91.532</i>	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 4 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)			
Models of Systems Affected: VH-3D/VH-60N				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Installation													
<i>Modification Item 1 of 1:</i> OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)	- / 0.000	- / 1.256	- / 0.504	- / 1.000	- / -	- / 1.000	- / 2.000	- / 1.500	- / -	- / -	- / -	- / 6.260	
<i>Subtotal: Installation</i>	- / 0.000	- / 1.256	- / 0.504	- / 1.000	- / -	- / 1.000	- / 2.000	- / 1.500	- / -	- / -	- / -	- / 6.260	
Total													
Total Cost (Procurement + Support + Installation)	80.613	36.221	30.530	28.312	-	28.312	10.210	7.868	-	-	-	193.754	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 4 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)

Modification Item 1 of 1: OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)

Manufacturer Information

Manufacturer Name: Sikorsky Aircraft Corp	Manufacturer Location: Stratford, CT - VH-3D Cabin Interior
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 20

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Sep 2015	Aug 2016	Apr 2017				
Delivery Dates	Jun 2017	Jun 2018	Dec 2018				

Manufacturer Name: General Electric	Manufacturer Location: Fairfield, CT- VH-60N Engine Conversion Kits
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 18

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-3D Cabin Interior Redesign Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / -
FY 2015	- / -	- / -	- / -	2 / 1.000	- / -	2 / 1.000	2 / 1.000	- / -	- / -	- / -	- / -	4 / 2.000
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000	- / -	- / -	- / -	- / -	2 / 1.000
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.500	- / -	- / -	- / -	3 / 1.500
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 1.000	- / -	2 / 1.000	4 / 2.000	3 / 1.500	- / -	- / -	- / -	9 / 4.500

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	9
Out	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	9

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 4 / OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)

Modification Item 1 of 1: OBSOLESCENCE MANAGEMENT PROGRAM (OSIP 023-09)

Installation Information

Method of Implementation: Installation by Contractor Field Mod Team:: Installation Name: VH-60N Engine Conversion Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	10 / 0.000	10 / 1.256	4 / 0.504	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	24 / 1.760
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10 / 0.000	10 / 1.256	4 / 0.504	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.760

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	10	3	3	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
Out	10	3	3	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24

Method of Implementation (Organic): Engines Kit- VH-60N **Installation Quantity:** 8

Method of Implementation (Organic): Archived A Kit **Installation Quantity:** 11

Method of Implementation (Organic): VH-3D Cabin Interior Redesign Equipment **Installation Quantity:** 11

Footnotes:

- (12) The VH-3D Cabin Interior Re-design A-kit in FY14 is the validation kit. One (1) of the five (5) A-kits in FY15 is the Verification kit. Cabin Interior kits include updates to the fuel system that were previously budgeted in OSIP 16-08. These costs reflect contracted prices.
- (13) The NRE in FY16 includes the Validation installation effort as well as stand up costs for the installation team. The NRE in FY17 includes the Verification installation effort.
- (14) Cabin Interior kits will be installed via a contractor field modification team at the Presidential Helicopter Support Facility in Patuxent River, MD.
- (15) The increase in Data in FY16 is for data and technical publications for the Engine Conversion effort. The FY18 data is for the publications and technical data for the Cabin Interior upgrade effort.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 5 / VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	39.275	16.455	2.829	-	-	-	-	-	-	-	-	58.559
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	39.275	16.455	2.829	-	-	-	-	-	-	-	-	58.559
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	39.275	16.455	2.829	-	-	-	-	-	-	-	-	58.559
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: In order to meet the requirement of providing safe and timely transportation for the President, Vice President, and other parties as directed by the Director of the White House Military Office (WHMO), and in support of the alert and contingency mission requirement of the WHMO Operations Plan, a Trainer Conversion Program has been established to convert a H-3 and a H-60 into UH-3D and UH-60N flyable trainer aircraft. The Trainer Conversion Program will alleviate flight hours on In Service VH aircraft thus preserving service life on national fleet assets. The conversion will allow for modifications including the VH-60N Cockpit Upgrade, VH Communication Suite Upgrade, and VH-3D Lift Improvement. Funds will also be utilized to manage and prepare, process, and incorporate Engineering Change Proposals (ECP) and implement changes that are made on all operational Executive Helicopter Series aircraft including safety, mission availability, structural integrity, and component (avionics/systems) reliability, maintainability, and obsolescence conditions as they arise.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Trainer Conversion Non-Recurring Engineering began in FY11. Procurement efforts began in FY12. Completion of the Trainer Conversion Program is projected in FY16.

Notes:

1. Installation costs include teardown, inspection, repair and conversion of the aircraft. Tasks to support these activities began in FY12.
2. Increase in NRE for Installation Kits in FY15 is for additional NRE needed to complete the UH-3D Trainer Conversion.
3. Data in FY15 and FY16 funds the publications for the modifications to the converted trainer aircrafts.
4. Other support in FY16 is for verification efforts for the UH-60N Trainer Aircraft and to continue to fund government support at the Prototype Integration Facility (PIF) until the aircraft is delivered to the fleet in FY16.
5. Increase in FY15 Installation cost is for additional UH-60 Trainer Conversion costs.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 5 / VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11)			
Models of Systems Affected: VH-3D / VH-60N				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11)													
A Kits													
Recurring													
1.1.1) UH-3D Conversion Kit - NonOrganic ⁽¹⁶⁾	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -	
1.1.2) UH-60N Conversion Kit - NonOrganic	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Non-Recurring													
1.2.1) Archived Installation Kits N/R - Organic ⁽¹⁷⁾	- / 6.223	- / 5.143	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.366	
<i>Subtotal: Non-Recurring</i>	- / 6.223	- / 5.143	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.366	
B Kits													
Recurring													
2.1.1) UH-60N Conversion Equip - Organic	1 / 1.150	- / 0.093	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.243	
2.1.2) Archived B-Kits - Organic	- / 1.486	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.486	
<i>Subtotal: Recurring</i>	- / 2.636	- / 0.093	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.729	
Non-Recurring													
2.2.1) Archived Installation Equipment N/R - Organic	- / 8.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.175	
<i>Subtotal: Non-Recurring</i>	- / 8.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.175	
<i>Subtotal: VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11)</i>	3 / 17.034	- / 5.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 22.270	
<i>Subtotal: Procurement, All Modification Items</i>	- / 17.034	- / 5.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.270	
Support (All Modification Items)													
3.2) Data ⁽¹⁸⁾	- / 0.325	- / 1.622	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.947	
3.4) Support Equipment	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	
3.5) ILS	- / 0.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.075	
3.6) Other Support ⁽¹⁹⁾	- / 17.774	- / 12.753	- / 1.829	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.356	
<i>Subtotal: Support</i>	- / 8.174	- / 4.875	- / 2.829	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.878	
Installation													
<i>Modification Item 1 of 1:</i> VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11)	- / 14.067	- / 6.344	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.411	
<i>Subtotal: Installation</i>	- / 14.067	- / 6.344	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.411	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 5 / VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11)			
Models of Systems Affected: VH-3D / VH-60N				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Total													
Total Cost (Procurement + Support + Installation)		39.275	16.455	2.829	-	-	-	-	-	-	-	58.559	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 5 / VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11)

Modification Item 1 of 1: VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11)

Manufacturer Information

Manufacturer Name: Sikorsky Aircraft Corporation- UH-3D Conversion	Manufacturer Location: Stratford, CT
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 2

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: Sikorsky Aircraft Corporation- UH-60N Conversion	Manufacturer Location: Stratford, CT
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 9

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Installation of UH-3D Conversion - Contractor Mod Team:: Installation Name: UH-3D Conversion Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 8.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / 8.850
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 8.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.850

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 5 / VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11)

Modification Item 1 of 1: VH-3D/VH-60N TRAINER CONVERSION (OSIP 009-11)

Installation Information

Method of Implementation: Installation of UH-60N Conversion - Contractor Mod Team:: Installation Name: UH-60N Conversion Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 5.217	- / 6.344	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / 11.561
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 5.217	- / 6.344	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 11.561

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation (Organic): UH-60N Conversion Equip

Installation Quantity: 1

Footnotes:

- (16) The increase in FY15 installation cost is for additional UH-60N trainer conversion costs.
- (17) Increase in NRE in FY15 is for additional NRE needed to complete the UH-3D Trainer Conversion.
- (18) The Data in FY16 funds the data and technical publications for the modifications to the converted trainer aircraft.
- (19) The Other Support in FY16 is for the validation/verification support for the UH-60N Trainer aircraft and to continue to fund government support at the Prototype Integration Facility (PIF) until the aircraft is delivered to the fleet in FY16.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 6 / VH-3D COCKPIT UPGRADE (OSIP 010-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.563	4.462	9.875	13.948	-	13.948	10.148	8.583	-	-	-	74.579
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.563	4.462	9.875	13.948	-	13.948	10.148	8.583	-	-	-	74.579
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.563	4.462	9.875	13.948	-	13.948	10.148	8.583	-	-	-	74.579
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: In order to meet the requirement of providing safe and timely transportation for the President, Vice President, and other parties as directed by the Director of the White House Military Office (WHMO), and in support of the alert and contingency mission requirement of the WHMO Operations Plan, a VH-3D Cockpit Upgrade program has been established to extend the VH-3D service life requirements. The VH-3D Cockpit Upgrade eliminates pending obsolescence & supportability issues with key avionics components and brings the VH-3D in compliance with mandated avionics capabilities (Communication Navigation Surveillance/Air Traffic Management, Terrain Awareness Warning System/Ground Proximity Warning System). In addition, an upgraded cockpit improves system safety, reduces pilot workload and training requirements. The baseline upgrade includes night vision compatibility and related cockpit lighting, GPS moving map functionality, and satellite weather feed, bringing the VH-3D in line with VH-60N capabilities. GPS moving map functionality and satellite weather feed capabilities are being provisioned via hand-held tablets. These tablets are being certified for flight for this purpose. Modern, common avionics equipment will reduce logistics cost and increase reliability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Procurement efforts for the VH-3D Cockpit Upgrade began in FY12. Procurement of electronic kneeboards (tablets) was completed in FY15. Procurement for the Cockpit Upgrade Lighting kits begins in FY16. The Data Transfer Module (DTU-7000) software upgrade effort begins in FY16. Operational Flight Program Software (OFP) upgrades for the Cockpit Upgrade program are ongoing to support the upgraded hardware systems.

Notes:

1. Software includes the software upgrade for the DTU-7000 effort.
2. The Cockpit Lighting Upgrade kits will be installed at O-level by the squadron at HMX-1 as aircraft are available.
3. The increase in Data in FY17 funds the publications updates needed as a result of the cockpit lighting upgrade.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 6 / VH-3D COCKPIT UPGRADE (OSIP 010-12)			
Models of Systems Affected: VH-3D				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: VH-3D COCKPIT UPGRADE (OSIP 010-12)													
A Kits													
Recurring													
1.1.1) VH-3D Cockpit Upgrade Kit - Organic ⁽²⁰⁾	- / -	- / -	5 / 1.000	6 / 1.224	- / -	6 / 1.224	- / -	- / -	- / -	- / -	- / -	11 / 2.224	
Subtotal: Recurring	- / 0.000	- / -	- / 1.000	- / 1.224	- / -	- / 1.224	- / -	- / -	- / -	- / -	- / -	- / 2.224	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 7.505	- / -	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.505	
Subtotal: Non-Recurring	- / 7.505	- / -	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.505	
B Kits													
Recurring													
2.1.1) VH-3D Cockpit Upgrade Kit - Organic	- / -	- / 0.089	5 / 0.375	6 / 0.456	- / -	6 / 0.456	- / -	- / -	- / -	- / -	- / -	11 / 0.920	
Subtotal: Recurring	- / 0.000	- / 0.089	- / 0.375	- / 0.456	- / -	- / 0.456	- / -	- / -	- / -	- / -	- / -	- / 0.920	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 7.005	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.005	
Subtotal: Non-Recurring	- / 7.005	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.005	
Subtotal: VH-3D COCKPIT UPGRADE (OSIP 010-12)	- / 14.510	- / 0.089	10 / 4.375	12 / 1.680	- / -	12 / 1.680	- / -	- / -	- / -	- / -	- / -	22 / 20.654	
Subtotal: Procurement, All Modification Items	- / 14.510	- / 0.089	- / 4.375	- / 1.680	- / -	- / 1.680	- / -	- / -	- / -	- / -	- / -	- / 20.654	
Support (All Modification Items)													
3.2) Data ⁽²¹⁾	- / -	- / 0.800	- / -	- / 0.800	- / -	- / 0.800	- / 0.800	- / 0.500	- / -	- / -	- / -	- / 2.900	
3.3) Software ⁽²²⁾	- / -	- / -	- / -	- / 15.954	- / -	- / 15.954	- / 14.900	- / 14.660	- / -	- / -	- / -	- / 15.514	
3.4) Training Equipment	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 1.100	- / 0.800	- / -	- / -	- / -	- / 2.400	
3.5) Support Equipment	- / 12.308	- / -	- / 0.250	- / 0.750	- / -	- / 0.750	- / -	- / -	- / -	- / -	- / -	- / 13.308	
3.6) ILS	- / -	- / -	- / 0.608	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.608	
3.7) Other Support	- / 10.745	- / 3.573	- / 14.642	- / 14.264	- / -	- / 14.264	- / 13.348	- / 2.623	- / -	- / -	- / -	- / 29.195	
Subtotal: Support	- / 13.053	- / 4.373	- / 5.500	- / 12.268	- / -	- / 12.268	- / 10.148	- / 8.583	- / -	- / -	- / -	- / 53.925	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 6 / VH-3D COCKPIT UPGRADE (OSIP 010-12)

Models of Systems Affected: VH-3D			Modification Type: SAFETY					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total Cost (Procurement + Support + Installation)	27.563	4.462	9.875	13.948	-	13.948	10.148	8.583	-	-	-	74.579

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 6 / VH-3D COCKPIT UPGRADE (OSIP 010-12)

Modification Item 1 of 1: VH-3D COCKPIT UPGRADE (OSIP 010-12)

Manufacturer Information

Manufacturer Name: Sikorsky Aircraft Corporation	Manufacturer Location: Stratford, CT
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 13

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Dec 2015	Dec 2016	Dec 2017	Dec 2018		
Delivery Dates		Jan 2017	Jan 2018	Jan 2019	Jan 2020		

Installation Information

Method of Implementation (Organic): VH-3D Cockpit Upgrade Kit	Installation Quantity: 11
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Method of Implementation (Organic): VH-3D Cockpit Upgrade Kit	Installation Quantity: 11
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Footnotes:

(20) The Cockpit Lighting Upgrade kits will be installed at O-level by the squadron at HMX-1 as aircraft are available.

(21) The increase in Data in FY17 funds the publication updates needed as a result of the cockpit lighting upgrade.

(22) Includes the software upgrade for the DTU-7000 effort.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series				Modification Number / Title: 7 / VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	-	7.977	16.702	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	-	7.977	16.702	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	-	7.977	16.702	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The VH-92A, based on the commercial Sikorsky S-92A aircraft, provides safe, reliable, and timely transportation for the President, Vice President, Foreign Heads of State (HoS), and other official parties as directed by the Director of the White House Military Office (WHMO). VH-92A Improvement Program provides near and long term improvements to the fleet, focusing on documented deficiencies related to mission systems, maintainability, and incorporates pre-planned product improvements defined in the VH-92A Capability Development Document (CDD). These modifications and selected component changes are being accomplished by depot level maintenance or field retrofit. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve VH-92A operations. ECPs will be implemented to coincide with resources and aircraft availability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: VH-92A Milestone B review was completed 21 March 2014, the MS B Acquisition Decision Memorandum was signed 17 April 2014 and the VH-92A contract for the Engineering and Manufacturing Development (EMD) phase and priced options for production was awarded on 7 May 2014. Four Systems Demonstration Test Articles (SDTA) will be delivered during EMD and will be used for Initial Operational Test and Evaluation (IOT&E). The SDTA will be delivered to the fleet after completion of IOT&E in FY20. This OSIP is a new start in FY20 to begin improvements and modifications to the SDTA and subsequent VH-92A aircraft as they are delivered after production. The VH-92A program will have a total of 21 operational aircraft by FY23.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 7 / VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)			
Models of Systems Affected: VH-92A				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)</i>													
A Kits													
Non-Recurring													
1.1.1 Installation Kits N/R - Organic													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.000	- / 10.943	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.000	- / 10.943	Continuing	Continuing	
B Kits													
Non-Recurring													
2.1.1 Installation Equipment N/R - Organic													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.933	- / 2.983	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.933	- / 2.983	Continuing	Continuing	
<i>Subtotal: VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.933	- / 13.926	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.933	- / 13.926	Continuing	Continuing	
Support (All Modification Items)													
3.1) Data													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 0.535	Continuing	Continuing	
3.2) Training Equipment													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.700	- / 0.712	Continuing	Continuing	
3.3) Other Support													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.844	- / 1.529	Continuing	Continuing	
<i>Subtotal: Support</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.044	- / 2.776	Continuing	Continuing	
Installation													
<i>Subtotal: Installation</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)													
	0.000	-	-	-	-	-	-	-	7.977	16.702	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 7 / VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)

Modification Item 1 of 1: VH-92A IMPROVEMENT PROGRAM (OSIP 001-20)

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 8 / Inactive OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	204.423	-	-	-	-	-	-	-	-	-	-	204.423
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	204.423	-	-	-	-	-	-	-	-	-	-	204.423
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	204.423	-	-	-	-	-	-	-	-	-	-	204.423
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

VH-3D Lift Improvement Program (LIP) OSIP 011-06 completed in FY 2012 and has been moved to In-Active OSIPs.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 8 / Inactive OSIPs			
Models of Systems Affected: VH-3D / VH-60N				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Inactive OSIPs													
A Kits													
Non-Recurring													
1.2.1) Inactive OSIPs - Organic	- / 204.423	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 204.423	
<i>Subtotal: Non-Recurring</i>	- / 204.423	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 204.423	
<i>Subtotal: Inactive OSIPs</i>	- / 204.423	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 204.423	
<i>Subtotal: Procurement, All Modification Items</i>	- / 204.423	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 204.423	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	204.423	-	-	-	-	-	-	-	-	-	-	204.423	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 8 / Inactive OSIPs
Modification Item 1 of 1: Inactive OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0567 / Special Project Acft
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	403.590	23.865	36.186	16.497	14.869	31.366	8.305	8.533	8.707	8.887	-	529.439
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	403.590	23.865	36.186	16.497	14.869	31.366	8.305	8.533	8.707	8.887	-	529.439
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	403.590	23.865	36.186	16.497	14.869	31.366	8.305	8.533	8.707	8.887	-	529.439

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in SPECIAL PROJECT ACFT by \$0.698M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

The Special Projects program modifies and/or replaces obsolete special mission equipment and integrates Quick Reaction Capability (QRC) on P-3 and P-8 aircraft. Procurements vary in each fiscal year and include common Navy systems for increased capability, reduced operator workload and common logistics, as well as procurement of special mission equipment as directed by the Chief of Naval Operations. Active Primary Aircraft Authorized inventory is 5 aircraft.

The government is the Lead System Integrator for Hardware and Software upgrades on the aircraft.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0567 / Special Project Acft

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Intelligence Sensors (OSIP 019-97) (Operational Improvement)			- / 329.235	- / 18.811	- / 36.186	- / 16.497	- / 14.869	- / 31.366
P-3a	2 / CLASSIFIED (Operational Improvement)			- / 0.000	- / 5.054	- / -	- / -	- / -	- / -
P-3a	3 / Inactive OSIPS (Operational Improvement)			- / 74.355	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 403.590	- / 23.865	- / 36.186	- / 16.497	- / 14.869	- / 31.366

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Intelligence Sensors (OSIP 019-97) (Operational Improvement)			- / 8.305	- / 8.533	- / 8.707	- / 8.887	- / -	- / 450.030
P-3a	2 / CLASSIFIED (Operational Improvement)			- / -	- / -	- / -	- / -	- / -	- / 5.054
P-3a	3 / Inactive OSIPS (Operational Improvement)			- / -	- / -	- / -	- / -	- / -	- / 74.355
P-40	Total Gross/Weapon System Cost			- / 8.305	- / 8.533	- / 8.707	- / 8.887	- / -	- / 529.439

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
OCO:
FY2017 OCO Special Project Aircraft P496 v6.0 system technical refresh is required to continue current P496 Overseas Contingency Operations. Specific operational details can be provided in a classified forum.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0567 / Special Project Acft				Modification Number / Title: 1 / Intelligence Sensors (OSIP 019-97)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	329.235	18.811	36.186	16.497	14.869	31.366	8.305	8.533	8.707	8.887	-	450.030
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	329.235	18.811	36.186	16.497	14.869	31.366	8.305	8.533	8.707	8.887	-	450.030
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	329.235	18.811	36.186	16.497	14.869	31.366	8.305	8.533	8.707	8.887	-	450.030

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION:

For FY17 these modification efforts continue to replace obsolescence intelligence collection equipment in five P-3 Special Project aircraft by procurement of special mission equipment as directed by the Chief of Naval Operations.

The government is the Lead System Integrator for Hardware and Software upgrades on the aircraft.

FY2015 OCO Special Projects Aircraft Collection and Exploitation Equipment effort procures and rapidly integrates Collection and Exploitation Equipment (CEE) required to conduct COCOM directed missions in support of OCOs. Specific operational details can be provided in a classified forum.

FY2016 OCO Special Project Aircraft Airborne Collection and Measurement Equipment (ACME) effort procures and rapidly integrates ACME required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO). Specific operational details can be provided in a classified forum.

FY2016 OCO Special Project Aircraft Airborne Electro Optic Targeting (AEOT) effort procures and rapidly integrates AEOT required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO). Specific operational details can be provided in a classified forum.

FY2017 OCO Special Project Aircraft Extended Range Exploitation System (ERES) effort procures and rapidly integrates ERES required to conduct COCOM directed missions in support of Overseas Contingency Operations (OCO). Specific operational details can be provided in a classified forum.

FY2017 OCO Special Project Aircraft P496 v6.0 system technical refresh is required to continue current P496 Overseas Contingency Operations. Specific operational details can be provided in a classified forum.

DEVELOPMENT STATUS/MAJOR MILESTONES: Not Applicable

NOTES:

1) FY2017 OCO will fund installs in FY2018

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Exhibit P-3a, Individual Modification: PB 2017 Navy								Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0567 / Special Project Acft				Modification Number / Title: 1 / Intelligence Sensors (OSIP 019-97)					
Models of Systems Affected: P-3B/C			Modification Type: Operational Improvement				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Intelligence Sensors (OSIP 019-97)</i>													
B Kits													
Recurring													
1.1.1) Archived - Organic ⁽¹⁾	- / 85.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 85.080	
1.1.2) Mission Unique Equipment - NonOrganic ⁽²⁾	- / 101.574	- / 12.145	- / 23.230	- / 7.359	- / 11.150	- / 18.509	- / 4.051	- / 3.791	- / 3.920	- / 4.049	- / -	- / 171.269	
Subtotal: Recurring	- / 186.654	- / 12.145	- / 23.230	- / 7.359	- / 11.150	- / 18.509	- / 4.051	- / 3.791	- / 3.920	- / 4.049	- / -	- / 256.349	
Non-Recurring													
1.2.1) Collection and Exploitation Equipment - OCO - NonOrganic	- / -	- / 1.840	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.840	
1.2.2) Install Equipment N/R - Organic	- / 70.722	- / 1.822	- / 1.871	- / 1.348	- / 1.349	- / 2.697	- / 0.820	- / 1.351	- / 1.351	- / 1.351	- / -	- / 81.985	
1.2.3) BFT/Collection Equipment (Install Equip N/R) - Organic	- / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.120	
Subtotal: Non-Recurring	- / 70.842	- / 3.662	- / 1.871	- / 1.348	- / 1.349	- / 2.697	- / 0.820	- / 1.351	- / 1.351	- / 1.351	- / -	- / 83.945	
Subtotal: Intelligence Sensors (OSIP 019-97)	- / 257.496	- / 15.807	- / 25.101	- / 8.707	- / 12.499	- / 21.206	- / 4.871	- / 5.142	- / 5.271	- / 5.400	- / -	- / 340.294	
Subtotal: Procurement, All Modification Items	- / 257.496	- / 15.807	- / 25.101	- / 8.707	- / 12.499	- / 21.206	- / 4.871	- / 5.142	- / 5.271	- / 5.400	- / -	- / 340.294	
Support (All Modification Items)													
2.2) Data ⁽³⁾	- / 5.118	- / 0.300	- / 1.009	- / 0.950	- / -	- / 0.950	- / 0.200	- / 0.100	- / 0.100	- / 0.100	- / -	- / 7.877	
2.3) Training Equipment	- / 10.584	- / 0.200	- / 0.280	- / 0.260	- / -	- / 0.260	- / 0.200	- / 0.100	- / 0.100	- / 0.100	- / -	- / 11.824	
2.4) BFT/Collection Equipment (Training Equip)	- / 0.181	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.181	
2.5) Support Equipment	- / 0.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.430	
2.6) ILS	- / 3.797	- / 0.330	- / 0.698	- / 0.654	- / 0.220	- / 0.874	- / 0.400	- / 0.500	- / 0.500	- / 0.500	- / -	- / 7.599	
2.7) Other Support	- / 145.904	- / 1.474	- / 3.260	- / 2.656	- / 1.000	- / 3.656	- / 2.177	- / 2.237	- / 2.282	- / 2.334	- / -	- / 63.324	
Subtotal: Support	- / 66.014	- / 2.304	- / 5.247	- / 4.520	- / 1.220	- / 5.740	- / 2.977	- / 2.937	- / 2.982	- / 3.034	- / -	- / 91.235	
Installation													
<i>Modification Item 1 of 1: Intelligence Sensors (OSIP 019-97)</i>	- / 5.725	- / 0.700	- / 5.838	- / 3.270	- / 1.150	- / 4.420	- / 0.457	- / 0.454	- / 0.454	- / 0.453	- / -	- / 18.501	
Subtotal: Installation	- / 5.725	- / 0.700	- / 5.838	- / 3.270	- / 1.150	- / 4.420	- / 0.457	- / 0.454	- / 0.454	- / 0.453	- / -	- / 18.501	
Total													
Total Cost (Procurement + Support + Installation)	329.235	18.811	36.186	16.497	14.869	31.366	8.305	8.533	8.707	8.887	-	450.030	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0567 / Special Project Acft	Modification Number / Title: 1 / Intelligence Sensors (OSIP 019-97)

Modification Item 1 of 1: Intelligence Sensors (OSIP 019-97)

Manufacturer Information

Manufacturer Name: TBD - Operational Improvement ⁽⁴⁾	Manufacturer Location: TBD
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 8

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates	Sep 2015	Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: Navy Field Mod Team:: Installation Name: Operational Improvement

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 5.725	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / 6.725
FY 2015	- / -	- / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.700
FY 2016	- / -	- / -	- / 4.838	- / 1.490	- / -	- / 1.490	- / -	- / -	- / -	- / -	- / -	- / 6.328
FY 2017	- / -	- / -	- / -	- / 1.780	- / 1.150	- / 2.930	- / -	- / -	- / -	- / -	- / -	- / 2.930
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.457	- / -	- / -	- / -	- / -	- / 0.457
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.454	- / -	- / -	- / -	- / 0.454
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.454	- / 0.453	- / -	- / 0.907
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 5.725	- / 0.700	- / 5.838	- / 3.270	- / 1.150	- / 4.420	- / 0.457	- / 0.454	- / 0.454	- / 0.453	- / -	1 / 18.501

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
 (1) Installation equipment includes both Mission Unique and Improved Communication Capabilities to be installed concurrently.
 (2) P-3A In/Out for Total Prior Years should be blank, set to 1 as a workaround.
 (3) Data, Training Equipment, ILS and Other Support requirements are aligned to support First Article qualification testing in FY-16.
 (4) FY16 Installation Cost Increase is due to additional SPA capabilities / Kits procured in FY14.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0567 / Special Project Acft	Modification Number / Title: 2 / CLASSIFIED
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	5.054	-	-	-	-	-	-	-	-	-	5.054
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	5.054	-	-	-	-	-	-	-	-	-	5.054
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	5.054	-	-	-	-	-	-	-	-	-	5.054
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP #007-15 was transferred to new PE #0305241N and has been submitted as a CLASSIFIED budget for FY2015. FY2016 through FY2018 has been transferred to new BLI #0595 and has been submitted as a CLASSIFIED budget.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0567 / Special Project Acft					Modification Number / Title: 2 / CLASSIFIED			
Models of Systems Affected: P-3 B/C				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: N/A</i>													
<i>Subtotal: N/A</i>													
<i>Subtotal: Procurement, All Modification Items</i>													
Support (All Modification Items)													
<i>1.1) CLASSIFIED</i>													
<i>Subtotal: Support</i>													
Installation													
<i>Subtotal: Installation</i>													
Total													
Total Cost (Procurement + Support + Installation)		0.000	5.054	-	-	-	-	-	-	-	-	5.054	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0567 / Special Project Acft	Modification Number / Title: 2 / CLASSIFIED
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Modification Item 1 of 1: N/A

Manufacturer Information

Manufacturer Name: N/A	Manufacturer Location: N/A
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Administrative Leadtime (in Months):	Production Leadtime (in Months):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Support Only Installation	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0567 / Special Project Acft	Modification Number / Title: 3 / Inactive OSIPS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	74.355	-	-	-	-	-	-	-	-	-	-	74.355
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	74.355	-	-	-	-	-	-	-	-	-	-	74.355
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	74.355	-	-	-	-	-	-	-	-	-	-	74.355

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0567 / Special Project Acft					Modification Number / Title: 3 / Inactive OSIPS			
Models of Systems Affected: P-3B/C				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: N/A</i>													
<i>Subtotal: N/A</i>													
<i>Subtotal: Procurement, All Modification Items</i>													
Support (All Modification Items)													
<i>3.1) Inactive OSIPS</i>													
<i>Subtotal: Support</i>													
Installation													
<i>Subtotal: Installation</i>													
Total													
Total Cost (Procurement + Support + Installation)													

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0567 / Special Project Acft	Modification Number / Title: 3 / Inactive OSIPS
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Modification Item 1 of 1: N/A

Manufacturer Information

Manufacturer Name: N/A	Manufacturer Location: N/A
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Administrative Leadtime (<i>in Months</i>):	Production Leadtime (<i>in Months</i>):
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Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Support Only Installation	Installation Quantity: 0
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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0569 / T-45 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	652.215	90.024	81.734	114.887	-	114.887	148.653	171.221	173.289	177.719	855.341	2,465.083
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	652.215	90.024	81.734	114.887	-	114.887	148.653	171.221	173.289	177.719	855.341	2,465.083
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	652.215	90.024	81.734	114.887	-	114.887	148.653	171.221	173.289	177.719	855.341	2,465.083

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in T-45 SERIES by \$2.973M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

This line item funds modifications to T-45 Training System (T45TS) which encompasses both aircraft and Ground-Based Training Systems (GBTS). Current FY 2015 inventory is 199 Aircraft. The T-45 Goshawk is a tandem-seat, carrier capable derivative of the existing British Aerospace Hawk aircraft powered by a single Rolls Royce Adour engine. It serves as the aircraft component of the T45TS integrated jet pilot training system which replaces the three decade old TA-4 and T-2 technology. The overall goal of the modifications budgeted in FY 2017 and out is to correct discrepancies and deficiencies discovered after delivery of the aircraft and to commence upgrades to the aircraft cockpit and navigation systems. T-45 aircraft and simulators are facing critical avionics obsolescence and Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

Operational, Safety and Improvement Program (OSIP) (008-95) Corrections Of Deficiencies was established to resolve safety and reliability issues, improve required mission capabilities, and correct in-service deficiencies to aircraft components.

OSIP (003-03) Engine Surge was established to resolve engine surge critical safety issues.

OSIP (017-04) Avionics Obsolescence was established to convert the analog T-45As to the digital T-45C configuration in the Required Avionics Modernization Program (RAMP), inductions of which were completed in FY15, and resolve avionics obsolescence/DMSMS issues and implement safety related avionics upgrades.

OSIP (022-14) Service Life Extension Program (SLEP) funds correction of deficiencies discovered in the Service Life Assessment Program (SLAP) which identified risk areas that must be addressed in order to extend the aircraft service life.

OSIP (006-16) Required Avionics Sustainment Program (RASP) will modify the T45TS with the Automatic Dependent Surveillance-Broadcast Out (ADS-B (Out)) Capability to comply with the January 1, 2020 Federal Aviation Administration National Airspace Systems Mandate.

The designed service life of the aircraft is 14,400 hours with the average remaining service life of inventory aircraft estimated at 8,900 hours.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0569 / T-45 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / T-45TS Corrections of Deficiencies (OSIP 008-95) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)			- / 253.065	- / 25.844	- / 13.964	- / 15.954	- / -	- / 15.954
P-3a	2 / Engine Surge (OSIP 003-03) (PS Safety)			- / 33.018	- / 13.800	- / 17.966	- / 18.276	- / -	- / 18.276
P-3a	3 / Avionics Obsolescence (OSIP 017-04) (PS Safety)			- / 247.824	- / 24.042	- / 17.930	- / 23.991	- / -	- / 23.991
P-3a	4 / Service Life Extension Program (SLEP) (022-14) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)			- / 24.434	- / 26.338	- / 26.257	- / 29.449	- / -	- / 29.449
P-3a	5 / Required Avionics Sustainment Program (RASP) (006-16) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)			- / 0.000	- / -	- / 5.617	- / 27.217	- / -	- / 27.217
P-3a	6 / Inactive OSIPs (TBD)			- / 93.874	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 652.215	- / 90.024	- / 81.734	- / 114.887	- / -	- / 114.887

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / T-45TS Corrections of Deficiencies (OSIP 008-95) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)			- / 21.940	- / 24.088	- / 22.805	- / 36.279	- / 147.344	- / 561.283
P-3a	2 / Engine Surge (OSIP 003-03) (PS Safety)			- / 17.048	- / 24.884	- / 30.670	- / 37.358	- / 184.239	- / 377.259
P-3a	3 / Avionics Obsolescence (OSIP 017-04) (PS Safety)			- / 28.612	- / 17.716	- / 9.872	- / 23.284	- / 194.093	- / 587.364
P-3a	4 / Service Life Extension Program (SLEP) (022-14) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)			- / 41.087	- / 38.560	- / 53.094	- / 57.444	- / 306.813	- / 603.476
P-3a	5 / Required Avionics Sustainment Program (RASP) (006-16) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)			- / 39.966	- / 65.973	- / 56.848	- / 23.354	- / 22.852	- / 241.827
P-3a	6 / Inactive OSIPs (TBD)			- / -	- / -	- / -	- / -	- / -	- / 93.874
P-40	Total Gross/Weapon System Cost			- / 148.653	- / 171.221	- / 173.289	- / 177.719	- / 855.341	- / 2,465.083

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
In the PB17 budget submit, Non-Recurring Engineering for SLEP modifications will incorporate changes to improve structural details to increase aircraft service life to 21,600 flight hours at 150% Fatigue Life Expended which enables Chief of Naval Air Training pilot training requirements to be safely met until 2035.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	253.065	25.844	13.964	15.954	-	15.954	21.940	24.088	22.805	36.279	147.344	561.283
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	253.065	25.844	13.964	15.954	-	15.954	21.940	24.088	22.805	36.279	147.344	561.283
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	253.065	25.844	13.964	15.954	-	15.954	21.940	24.088	22.805	36.279	147.344	561.283
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This OSIP funds correction of deficiencies discovered during test and evaluation or operational use to the entire airframe, its components and sub-assemblies, including related Peculiar Support Equipment (SE), all of which vary in complexity and cost of Non-Recurring Engineering, procurement and installation. The correction of deficiencies Engineering Change Proposals (ECPs) include, but are not limited to: AIRFRAME ECPs - divided into two categories; Structural and Systems. STRUCTURAL ECPs: The structural portion of this OSIP provides for several structural ECPs to correct safety of flight related issues and deficiencies in meeting airframe original design life of 14,400 Flight Hours. ECPs for Wing Leading Edge panels, Wing centerline joint, Flap Center Hinge Arm, Canopy frame, Canopy Frame Longeron, Wing tip, Gas Turbine Starter bracket, Horizontal Stabilators, Frame 24 Crossbeam Lugs and Side Skin, Frame 7 Upper Cross Tie, Wing Leading Edge, Frame 29 Lower Flange, Uplock Beam Forward Attach, Slat Track Rib 5 Downstop Bolt, Rib 2 T-Clip, Frame 28/32 Boundary/Vertical Fin, Frame 33 Structure, Inlet Close-Out Fuel and Tank Ceiling Stiffener, Airframe Engine Mount, Frame 21 Structure, Main Landing Gear (MLG) Bay Tilted & Fasteners, MLG Side Stay Support, Longitudinal Systems Viscous, Frame 20 Lower Longeron/Sidebrace, Frame 12 Vertical Splice, Frame 1 Structures and Ballast provisions, Nose Landing Gear Trunnion Beam, Slat Actuator Fitting Angle, Structure Life Improvement, Speed Brake and Backup Structure, Engine Mount Link Option, Stabilizer Back-Up Structures, Fuselage/Frame 10 Door, and Fin Bracket Lever Box Assembly, Over Center Locking Mechanism, Arrestor Beam Back-up Structure, Wing Lower Aux Spar Doubler, Frame 16 Lateral Link, Frame 17/18 structures and Fuselage Sideskin Fasteners. SYSTEMS ECPs: Modifications to the airframe, other than structural deficiencies, are also required to ensure safety of flight, aero-performance and maintainability to enable satisfactory Pilot Training Requirements levels. This Airframe OSIP affects several airframe components and their sub-assemblies including: forward, center and aft fuselage components, Landing Gear, Nose Wheel Steering, arresting hook, tail cone, wing, horizontal and vertical control surfaces (Aileron Rudder), flaps, canopy/windscreen, Aircrew Systems, Ejection system, including lanyard retention collar, ejection control handle, sequencer, barostatic release unit, seat pan, head box and associated components, hydraulic system, and hyd system quick disconnects, oxygen system to include oxygen monitor, concentrator, and ancillary components, electrical system, fuel system, throttle, instrumentation systems, environmental controls, communications, navigation, emergency systems, and associated Peculiar Support Equipment (PSE), nosewheel steering test set, hydraulic test stand, cabin pressure test set, Easily Manipulated Mechanical Arm, frame 33 tail plane fitting tool, and landing gear (dummy gear). ENGINE/POWER AND PROPULSION: Modifications under this category include modifications to the Engine, Gas Turbine Starter, and Electrical System which will increase the reliability, maintainability and safety of these systems. Engine modifications include Engine Mounts, Fuel Pumps, Combustion Chamber, Compressors, Nozzle Guide Vanes, Drive Systems, Oil System, Air Systems, Turbines, Fuel Distribution and Control and modifications to address engine surge/compressor stall. Gas Turbine Starter modifications include starting system, air turbine starter, and air producer. Electrical modifications include generator/distribution/wiring modifications. Other Support and Non-Recurring Engineering costs in FY 2016 and beyond are to fund Government labor to perform engineering, test, logistics and financial management tasks in order to execute modifications associated with this OSIP. This additional support will be performed in accordance with the FMR and NAVAIR Policy.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2017 and out provides funds for STRUCTURAL ECPs, SYSTEMS ECPs, and ENGINE/PROPULSION & POWER ECPs.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)

Models of Systems Affected: T-45TS	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities	Related RDT&E PEs: 0702207N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: T-45TS Corrections of Deficiencies (OSIP 008-95)

A Kits

Recurring

1.1.1) Canopy Redesign - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.622	12 / 1.944	16 / 2.566
1.1.2) Wingtip Replacement - NonOrganic ⁽¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.590	- / -	- / -	- / -	- / -	- / -	2 / 2.590
1.1.3) Sub 14.4K FLE Deficiencies - NonOrganic ⁽²⁾	- / -	2 / 0.260	- / -	3 / 0.446	- / -	3 / 0.446	12 / 1.816	24 / 3.700	24 / 3.767	24 / 3.835	110 / 18.442	199 / 32.266	
1.1.4) Main Landing Gear (LSP) - NonOrganic ⁽³⁾	- / -	- / -	- / -	8 / 0.169	- / -	8 / 0.169	16 / 0.346	20 / 0.440	20 / 0.448	20 / 0.452	60 / 1.402	144 / 3.257	
1.1.5) Main Landing Gear HY-TUF Kits - NonOrganic	8 / 11.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 11.700	
1.1.6) Hookshank LSP - Organic	12 / 0.024	24 / 0.050	24 / 0.050	24 / 0.052	- / -	24 / 0.052	24 / 0.052	24 / 0.053	24 / 0.053	24 / 0.054	19 / 0.044	199 / 0.432	
1.1.7) Hookshank M54 - Organic	40 / 3.480	20 / 1.664	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 5.144	
1.1.8) Nose Wheel Steering System - NonOrganic ⁽⁴⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.827	30 / 1.682	30 / 1.709	124 / 7.324	199 / 11.542	
1.1.9) Hydraulic System - Organic ⁽⁵⁾	2 / 0.030	35 / 0.536	20 / 0.306	20 / 0.317	- / -	20 / 0.317	20 / 0.323	20 / 0.328	20 / 0.334	20 / 0.339	42 / 0.729	199 / 3.242	
1.1.10) NACES Retrofit Upgrade - NonOrganic ⁽⁶⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.089	12 / 0.271	48 / 1.101	334 / 8.071	398 / 9.532	
1.1.11) Archived ECPs - NonOrganic	2,527 / 110.436	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,527 / 110.436	
Subtotal: Recurring	- / 125.670	- / 2.510	- / 0.356	- / 0.984	- / -	- / 0.984	- / 5.127	- / 5.437	- / 6.555	- / 8.112	- / 37.956	- / 192.707	

Non-Recurring

1.2.1) NON-RECURRING COSTS - Organic	- / 25.332	- / 6.310	- / 0.329	- / 2.429	- / -	- / 2.429	- / 1.150	- / 2.649	- / 0.543	- / 7.275	- / 13.808	- / 59.825
Subtotal: Non-Recurring	- / 25.332	- / 6.310	- / 0.329	- / 2.429	- / -	- / 2.429	- / 1.150	- / 2.649	- / 0.543	- / 7.275	- / 13.808	- / 59.825

B Kits

Recurring

2.1.1) OBOGS CRU-123 - Organic	- / -	- / -	199 / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / 3.500
2.1.2) NACES Propellant - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.036	96 / 0.253	96 / 0.255	192 / 0.531	398 / 1.075
2.1.3) Oxygen Concentrator (Hypoxia Prevention) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.091	57 / 2.626	60 / 2.810	80 / 3.807	- / -	199 / 9.334
2.1.4) Archived B Kits - Organic	27 / 6.653	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 6.653
Subtotal: Recurring	- / 6.653	- / -	- / 3.500	- / -	- / -	- / -	- / 0.091	- / 2.662	- / 3.063	- / 4.062	- / 0.531	- / 20.562

Non-Recurring

2.2.1) INSTALL EQUIPMENT N/R - Organic	- / 7.699	- / -	- / -	- / 1.200	- / -	- / 1.200	- / 2.100	- / -	- / -	- / -	- / -	- / 10.999
Subtotal: Non-Recurring	- / 7.699	- / -	- / -	- / 1.200	- / -	- / 1.200	- / 2.100	- / -	- / -	- / -	- / -	- / 10.999

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)

Models of Systems Affected: T-45TS	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities	Related RDT&E PEs: 0702207N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: T-45TS Corrections of Deficiencies (OSIP 008-95)</i>	2,616 / 165.354	81 / 8.820	243 / 4.185	55 / 4.613	- / -	55 / 4.613	76 / 8.468	178 / 10.748	286 / 10.161	346 / 19.449	893 / 52.295	4,774 / 284.093
<i>Subtotal: Procurement, All Modification Items</i>	- / 165.354	- / 8.820	- / 4.185	- / 4.613	- / -	- / 4.613	- / 8.468	- / 10.748	- / 10.161	- / 19.449	- / 52.295	- / 284.093
Support (All Modification Items)												
3.2) Data	- / 0.844	- / 0.039	- / 0.036	- / 0.036	- / -	- / 0.036	- / 0.037	- / 0.038	- / 0.038	- / 0.039	- / 0.383	- / 1.490
3.3) Training Equipment	- / 7.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.054
3.4) Support Equipment	- / 1.480	- / 0.050	- / 0.051	- / 0.052	- / -	- / 0.052	- / 0.053	- / 0.054	- / 0.055	- / 0.056	- / 0.546	- / 2.397
3.5) ILS	- / 0.044	- / 0.491	- / 0.245	- / 0.250	- / -	- / 0.250	- / 0.255	- / 0.255	- / 0.260	- / 0.264	- / 1.658	- / 3.722
3.6) Other Support ⁽⁷⁾	- / 157.553	- / 10.745	- / 6.583	- / 8.151	- / -	- / 8.151	- / 8.803	- / 7.965	- / 7.172	- / 7.295	- / 39.297	- / 153.564
<i>Subtotal: Support</i>	- / 166.975	- / 11.325	- / 6.915	- / 8.489	- / -	- / 8.489	- / 9.148	- / 8.312	- / 7.525	- / 7.654	- / 41.884	- / 168.227
Installation												
<i>Modification Item 1 of 1: T-45TS Corrections of Deficiencies (OSIP 008-95)</i>	- / 20.736	- / 5.699	- / 2.864	- / 2.852	- / -	- / 2.852	- / 4.324	- / 5.028	- / 5.119	- / 9.176	- / 53.165	- / 108.963
<i>Subtotal: Installation</i>	- / 20.736	- / 5.699	- / 2.864	- / 2.852	- / -	- / 2.852	- / 4.324	- / 5.028	- / 5.119	- / 9.176	- / 53.165	- / 108.963
Total												
Total Cost (Procurement + Support + Installation)	253.065	25.844	13.964	15.954	-	15.954	21.940	24.088	22.805	36.279	147.344	561.283

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)

Modification Item 1 of 1: T-45TS Corrections of Deficiencies (OSIP 008-95)

Manufacturer Information

Manufacturer Name: Various ⁽⁸⁾				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: T-45TS CORR OF DEFICIENCIES (OSIP 008-95)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	890 / 20.736	6 / 5.699	2 / 2.864	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	898 / 29.299
FY 2015	- / -	- / -	- / -	2 / 1.162	- / -	2 / 1.162	- / -	- / -	- / -	- / -	- / -	2 / 1.162
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	8 / 1.690	- / -	8 / 1.690	3 / 0.886	- / -	- / -	- / -	- / -	11 / 2.576
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	16 / 3.438	14 / 3.713	- / -	- / -	- / -	30 / 7.151
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 1.315	24 / 3.183	- / -	- / -	63 / 4.498
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 1.936	24 / 7.451	- / -	86 / 9.387
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	98 / 1.725	28 / 8.133	126 / 9.858
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	640 / 45.032	640 / 45.032
Total	890 / 20.736	6 / 5.699	2 / 2.864	10 / 2.852	- / -	10 / 2.852	19 / 4.324	53 / 5.028	86 / 5.119	122 / 9.176	668 / 53.165	1,856 / 108.963

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	890	-	-	-	6	2	-	-	-	1	1	-	8	-	-	11	8	3	3	20	27	6	6	31	43	6	6	55	55	668	1,856
Out	890	-	-	-	6	2	-	-	-	-	1	1	8	-	-	8	11	-	3	20	27	3	6	31	43	6	6	55	55	674	1,856

Method of Implementation (Organic): Hookshank LSP **Installation Quantity:** 199

Method of Implementation (Organic): Hookshank M54 **Installation Quantity:** 60

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)

Modification Item 1 of 1: T-45TS Corrections of Deficiencies (OSIP 008-95)

Installation Information

Method of Implementation (Organic): Hydraulic System	Installation Quantity: 199
Method of Implementation (Organic): OBOGS CRU-123	Installation Quantity: 199
Method of Implementation (Organic): NACES Propellent	Installation Quantity: 398
Method of Implementation (Organic): Oxygen Concentrator (Hypoxia Prevention) - Not Installed	Installation Quantity: 199
Method of Implementation (Organic): Archived B Kits - Not Installed	Installation Quantity: 27

Footnotes:

- (1) 1.1.2 Delays in NRE start delayed kit purchase to FY 2018
- (2) 1.1.3 Decrease in FY 2020 installation cost is learning curve and FY 2021 increase is new CLS contract.
- (3) 1.1.4 Main Landing Gear Laser Shock Peening (LSP) A-kits delayed due to NRE delays. Decrease in installation costs in FY19 is result of expected learning curve efficiencies.
- (4) 1.1.8 Recurring kit procurements delayed to FY 2019 due to delay in Non Recurring Engineering start.
- (5) 1.1.9 The rephased (cost and schedule) procurement of kits from previous President's budget submit is due to the department receipt of updated information from the Fleet Support Team and Chief of Naval Air Training.
- (6) 1.1.10 Kit procurement delays due to delayed contract award for NACES NRE.
- (7) 3.6 Fluctuations are due to differing levels of complexity with kits being developed requiring varying levels of support throughout the FYDP. FY 2016 decrease due to Congressional mandated reduction. FY 2017 and out reductions due to inflation adjustments.
- (8) Items that make up this group have various MFG as well as various ALT and PLT.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 2 / Engine Surge (OSIP 003-03)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	33.018	13.800	17.966	18.276	-	18.276	17.048	24.884	30.670	37.358	184.239	377.259
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	33.018	13.800	17.966	18.276	-	18.276	17.048	24.884	30.670	37.358	184.239	377.259
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	33.018	13.800	17.966	18.276	-	18.276	17.048	24.884	30.670	37.358	184.239	377.259

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Engine Surge: In FY 2003, OSIP 003-03 was established to address and fund the T-45 safety-of-flight risk known as surge stall. T-45 engine surge is a critical safety concern for a single engine training aircraft with over 900 surge events documented, including over 70 surges requiring engine shutdown and restart emergency action. All elements of the T-45 training system (wings, fuselage, engine, etc.) contribute to the incidences of surge stall. The F405 engine continues to experience surge stall events and the funding is for the recurring and non-recurring activities set forth in this OSIP that are on-going through the FYDP, and the out-years. Kits include modifications to air vehicle, engine, and fuel control system. Non-Recurring Engineering efforts to modify air vehicle and engine components are occurring in FY 2015 to support kit procurements in FY 2016 and out. Starting in FY 2014, Office of the Chief of Naval Operations Issue 50104 provided additional funds to support T-45 Engine Inlet Modification efforts to mitigate surge/stall risk to an acceptable level. Non-Recurring Engineering continues in FY 2016 to support val/ver kit and support equipment procured in FY 2015. Naval Air Systems Command/Airforces will not accept engine stall risk without Program Objective Memorandum 14 mitigation efforts.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Funding is provided to correct T-45 F405 engine surge. Non-Recurring Engineering efforts to modify the F405-RR-401 engine continued in FY 2015 and out to support kit procurement in FY 2016 and out.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 2 / Engine Surge (OSIP 003-03)			
Models of Systems Affected: T-45TS				Modification Type: PS Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Engine Surge (OSIP 003-03)</i>													
A Kits													
Recurring													
1.1.1) Airframe Kits - NonOrganic ⁽⁹⁾	18 / 1.372	- / -	100 / 0.795	100 / 0.810	- / -	100 / 0.810	100 / 0.825	100 / 0.840	- / -	- / -	- / -	418 / 4.642	
1.1.2) AF Inlet Mod Kits - NonOrganic ⁽¹⁰⁾	- / -	4 / 2.221	- / -	3 / 1.249	- / -	3 / 1.249	12 / 5.082	24 / 10.334	36 / 15.760	36 / 16.018	84 / 38.405	199 / 89.069	
1.1.3) Engine Kits O & I Level - Organic ⁽¹¹⁾	41 / 0.230	41 / 0.234	41 / 0.238	41 / 0.242	- / -	41 / 0.242	61 / 0.466	20 / 0.224	20 / 0.228	20 / 0.232	113 / 1.476	398 / 3.570	
1.1.4) Fuel System Kits O&I - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000	197 / 67.200	199 / 68.200	
1.1.5) Airframe Fuel System Kits - NonOrganic ⁽¹²⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.250	197 / 10.080	199 / 10.330	
<i>Subtotal: Recurring</i>	<i>- / 1.602</i>	<i>- / 2.455</i>	<i>- / 1.033</i>	<i>- / 2.301</i>	<i>- / -</i>	<i>- / 2.301</i>	<i>- / 6.373</i>	<i>- / 11.398</i>	<i>- / 15.988</i>	<i>- / 17.500</i>	<i>- / 117.161</i>	<i>- / 175.811</i>	
Non-Recurring													
1.2.1) Non-Recurring Engineering - Organic ⁽¹³⁾	- / 17.548	- / 3.933	- / 6.793	- / 5.358	- / -	- / 5.358	- / 1.298	- / 2.443	- / 2.200	- / 2.688	- / 0.720	- / 42.981	
<i>Subtotal: Non-Recurring</i>	<i>- / 17.548</i>	<i>- / 3.933</i>	<i>- / 6.793</i>	<i>- / 5.358</i>	<i>- / -</i>	<i>- / 5.358</i>	<i>- / 1.298</i>	<i>- / 2.443</i>	<i>- / 2.200</i>	<i>- / 2.688</i>	<i>- / 0.720</i>	<i>- / 42.981</i>	
B Kits													
Recurring													
2.1.1) Install Equipment - Organic	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / -	- / 0.200	- / 0.200	- / 0.202	- / 0.202	- / 0.202	- / 0.416	- / 2.022	
<i>Subtotal: Recurring</i>	<i>- / 0.200</i>	<i>- / 0.200</i>	<i>- / 0.200</i>	<i>- / 0.200</i>	<i>- / -</i>	<i>- / 0.200</i>	<i>- / 0.200</i>	<i>- / 0.202</i>	<i>- / 0.202</i>	<i>- / 0.202</i>	<i>- / 0.416</i>	<i>- / 2.022</i>	
Non-Recurring													
2.2.1) INSTALL EQUIPMENT N/R - Organic ⁽¹⁴⁾	- / 0.200	- / 0.200	- / 0.895	- / 0.909	- / -	- / 0.909	- / 0.924	- / 0.998	- / 1.014	- / 1.030	- / 7.788	- / 13.958	
<i>Subtotal: Non-Recurring</i>	<i>- / 0.200</i>	<i>- / 0.200</i>	<i>- / 0.895</i>	<i>- / 0.909</i>	<i>- / -</i>	<i>- / 0.909</i>	<i>- / 0.924</i>	<i>- / 0.998</i>	<i>- / 1.014</i>	<i>- / 1.030</i>	<i>- / 7.788</i>	<i>- / 13.958</i>	
<i>Subtotal: Engine Surge (OSIP 003-03)</i>	<i>59 / 19.550</i>	<i>45 / 6.788</i>	<i>141 / 8.921</i>	<i>144 / 8.768</i>	<i>- / -</i>	<i>144 / 8.768</i>	<i>173 / 8.795</i>	<i>144 / 15.041</i>	<i>56 / 19.404</i>	<i>60 / 21.420</i>	<i>591 / 126.085</i>	<i>1,413 / 234.772</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 19.550</i>	<i>- / 6.788</i>	<i>- / 8.921</i>	<i>- / 8.768</i>	<i>- / -</i>	<i>- / 8.768</i>	<i>- / 8.795</i>	<i>- / 15.041</i>	<i>- / 19.404</i>	<i>- / 21.420</i>	<i>- / 126.085</i>	<i>- / 234.772</i>	
Support (All Modification Items)													
3.2) Data	- / 0.270	- / 0.150	- / 1.275	- / 1.909	- / -	- / 1.909	- / 2.457	- / 2.468	- / 2.020	- / 2.560	- / 10.746	- / 23.855	
3.3) Training Equipment	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.025	
3.4) Support Equipment ⁽¹⁵⁾	- / 0.700	- / 3.400	- / 1.464	- / 2.124	- / -	- / 2.124	- / 0.253	- / 0.514	- / 0.784	- / 1.797	- / 2.741	- / 13.777	
3.5) ILS	- / 0.010	- / 0.455	- / 0.463	- / 0.471	- / -	- / 0.471	- / 0.479	- / 0.487	- / 0.496	- / 0.505	- / 2.628	- / 5.994	
3.6) Other Support ⁽¹⁶⁾	- / 12.463	- / 3.007	- / 5.631	- / 4.084	- / -	- / 4.084	- / 4.370	- / 4.222	- / 4.046	- / 5.099	- / 20.487	- / 63.409	
3.7) Interim Contractor Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 0.500	
<i>Subtotal: Support</i>	<i>- / 13.468</i>	<i>- / 7.012</i>	<i>- / 8.833</i>	<i>- / 8.588</i>	<i>- / -</i>	<i>- / 8.588</i>	<i>- / 7.559</i>	<i>- / 7.691</i>	<i>- / 7.346</i>	<i>- / 9.961</i>	<i>- / 37.102</i>	<i>- / 107.560</i>	
Installation													

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)
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Models of Systems Affected: T-45TS **Modification Type:** PS Safety **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Modification Item 1 of 1: Engine Surge (OSIP 003-03)	- / 0.000	- / -	- / 0.212	- / 0.920	- / -	- / 0.920	- / 0.694	- / 2.152	- / 3.920	- / 5.977	- / 21.052	- / 34.927
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 0.212	- / 0.920	- / -	- / 0.920	- / 0.694	- / 2.152	- / 3.920	- / 5.977	- / 21.052	- / 34.927
Total												
Total Cost (Procurement + Support + Installation)	33.018	13.800	17.966	18.276	-	18.276	17.048	24.884	30.670	37.358	184.239	377.259

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)

Modification Item 1 of 1: Engine Surge (OSIP 003-03)

Manufacturer Information

Manufacturer Name: L-3 Vertex - Airframe Kits	Manufacturer Location: Kingsville, TX
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 1

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2015	Oct 2016	Oct 2017	Oct 2018		
Delivery Dates		Nov 2015	Nov 2016	Nov 2017	Nov 2018		

Manufacturer Name: Boeing - AF Inlet Mod Kits ⁽¹⁷⁾	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 11

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2015	May 2017	Nov 2017	Nov 2018	Nov 2019	Nov 2020
Delivery Dates		Jan 2017	Apr 2018	Oct 2018	Oct 2019	Oct 2020	Oct 2021

Manufacturer Name: TBD - Airframe Fuel System Kits	Manufacturer Location: TBD - Loc
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Airframe Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1 / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	100 / 0.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 0.212
FY 2017	- / -	- / -	- / -	100 / 0.216	- / -	100 / 0.216	- / -	- / -	- / -	- / -	- / -	100 / 0.216
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	100 / 0.220	- / -	- / -	- / -	- / -	100 / 0.220
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 0.224	- / -	- / -	- / -	100 / 0.224
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.000	- / -	100 / 0.212	100 / 0.216	- / -	100 / 0.216	100 / 0.220	100 / 0.224	- / -	- / -	- / -	401 / 0.872

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)

Modification Item 1 of 1: Engine Surge (OSIP 003-03)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Airframe Kits

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	1	-	-	-	-	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	401
Out	1	-	-	-	-	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	401

Method of Implementation: Contractor Field Mod Team:: Installation Name: AF Inlet Mod Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	4 / 0.704	- / -	4 / 0.704	- / -	- / -	- / -	- / -	- / -	4 / 0.704
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.474	- / -	- / -	- / -	- / -	3 / 0.474
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.928	- / -	- / -	- / -	12 / 1.928
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 3.920	- / -	- / -	24 / 3.920
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 5.977	- / -	36 / 5.977
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 6.073	36 / 6.073
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	84 / 14.554	84 / 14.554
Total	- / -	- / -	- / -	4 / 0.704	- / -	4 / 0.704	3 / 0.474	12 / 1.928	24 / 3.920	36 / 5.977	120 / 20.627	199 / 33.630

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	3	3	3	3	3	6	6	6	6	9	9	9	9	120	199
Out	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	3	3	3	3	3	6	6	6	6	9	9	9	9	120	199

Method of Implementation: Contractor Field Mod Team:: Installation Name: Airframe Fuel System Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)

Modification Item 1 of 1: Engine Surge (OSIP 003-03)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Airframe Fuel System Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.005	2 / 0.005
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	197 / 0.420	197 / 0.420
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / 0.425	199 / 0.425

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199	199
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199	199

Method of Implementation (Organic): Engine Kits O & I Level **Installation Quantity:** 398

Method of Implementation (Organic): Fuel System Kits O&I **Installation Quantity:** 199

Footnotes:

- (9) 1.1.1 Of the 18 Hot Section Reliability Improvement Program (HSRIP) kits procured in prior years, 17 will not be installed unless funding is approved for HSRIP. 2. Airframe kits total quantity reduced due to cancellation of generator reliability improvement ECP (FY 2015 - 2018 reduced by 50 units per year)
- (10) 1.1.2 FY 2016 val/ver kits moved to FY 2015; kit cost increase due to retrofit mod at frame 12 vice frame 10 which allows for faster install time, reduced installation cost, and overall lower cost when kits and install costs are combined.
- (11) 1.1.3 FY 2017 funds procurement of 41 Dashpot Acceleration Switch Modification (DAS Mod) kits at \$0.259M; FY 2018 funds procurement of 41 DAS Mod kits at \$0.264M and 20 Correct Rotation System kits at \$0.220M - unit cost fluctuates due to multiple parts associated with Engine kits. Correct Rotation System ECP delayed to FY 2018. Total cost increased as a result of delay in kits buys for Correct Rotation System.
- (12) 1.1.5 Kits required to adapt airframe interface to accept fuel control system kits.
- (13) 1.2.1 NR increased in FY 2016 due to NR required for the Inlet modification at Frame 12, vice Frame 10. Reduction in FY 2017 due to decrease in expected Engine NR costs.
- (14) 2.2.1 FY 2016 and out increase due to funding Diminishing Manufacturing Sources and Material Shortages initiatives

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)

- (15) 3.4 Increase in SE from FY 2017 through to complete reflects required SE for the Inlet Mod. FY 2021 increase in SE is for fuel system SE required for val/ver kits.
- (16) 3.6 FY 2016 increase due to increased support requirements while getting inlet recurring kits and installs awarded. Other support will include modification planning and integrating schedule. Once awarded, surge dissipates. In FY 2018, once contract is in place and recurring installs are starting, Government will need to increase support.
- (17) The install unit costs in FY 2016-FY 2019 fluctuate due to multiple part numbers being installed within FYDP.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	247.824	24.042	17.930	23.991	-	23.991	28.612	17.716	9.872	23.284	194.093	587.364
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	247.824	24.042	17.930	23.991	-	23.991	28.612	17.716	9.872	23.284	194.093	587.364
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	247.824	24.042	17.930	23.991	-	23.991	28.612	17.716	9.872	23.284	194.093	587.364

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The T-45TS is facing critical obsolescence/performance issues. Components of various avionics boxes will not be supportable as a result of Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues that result in part obsolescence or supplier mortality.

The Required Avionics Modernization Program (RAMP) was the Analog to Digital conversion of the T-45A aircraft. RAMP resolved obsolescence issues with such items as the Global Inertial Navigation Assembly (GINA), Display Processor (DP), Airborne Data Recorder (ADR), Multi-Function Display (MFD), Signal Data Computer (SDC), Azmith Computer, and various other avionics computers.

The RAMP effort consisted of a Glass Cockpit upgrade which includes two (2) Multi-Function Color Displays (MFCD) per cockpit, a Mission Display Processor (MDP), Stability Augmentation Data Sensor (SADS), Advanced SDC (ASDC), Pilot Display Unit (PDU), Fuel Flow Indicator (FFI), associated cockpit controls and a 1553 digital data bus; integrating them with the existing Heads Up Display (HUD), the ADR, and a separately procured GINA. RAMP inductions were completed in FY15, with the installs completing into FY16.

As a continued effort to address sustainment, obsolescence and performance issues, the Digital Data Set (DDS) is being introduced to the T-45 by replacing the Mission Data Loader, Airborne Video Cassette Recorder, and Advanced Signal Data Computer (ADR, SDC, ASDC) on each aircraft. The DDS, which includes the Digital Acquisition Unit (DAU), the Control Panel (CP), and associated wiring, will be installed on all T-45C aircraft. DDS Increment II addresses component obsolescence and adds an approved data-at-rest Mission Data Transfer Unit (MDTU) which is an enabler for the implementation of the Military Flight Operational Quality Assurance (MFOQA) program. The Wireless capability of the DDS (previously planned as DDS Increment III) is no longer a requirement for MFOQA. The MFOQA implementation will address obsolescence issues with the current HUD camera.

AVIONICS/GROUND BASED TRAINING SYSTEMS: Modifications to the Avionics will be required to update the MDP, PDU/ HUD and the HUD camera, GINA, and those avionic components associated with the affected aircraft systems. The following Avionics ECPs include: Avionics Corrections of Deficiencies, Almanac Loading System, communication systems, navigation systems, the Virtual Mission Training System (VMTS), Radar Altimeter, inverter, and any associated SE. Avionics ECPs may also be driven by new Cybersecurity requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2015 provided funds for DDS Inc II NRE and procurement kits. FY 2017 continues funding to procure and install DDS kits and provides funding for MFOQA, HUD camera obsolescence, and Radar Altimeter Obsolescence.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)

Models of Systems Affected: T-45TS A/C	Modification Type: PS Safety	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement												
Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)												
A Kits												
Recurring												
1.1.1) RAMP KITS - NonOrganic	70 / 53.320	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 53.320
1.1.2) Obsolescence Kits - NonOrganic ⁽¹⁸⁾	415 / 10.006	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	415 / 10.006
1.1.3) DDS (CSMU/CP/DAU) - NonOrganic ⁽¹⁹⁾	138 / 1.162	31 / 0.258	- / -	32 / 0.293	- / -	32 / 0.293	- / -	- / -	- / -	- / -	- / -	201 / 1.713
1.1.4) Archive - Organic	- / 10.146	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.146
Subtotal: Recurring	- / 74.634	- / 0.258	- / -	- / 0.293	- / -	- / 0.293	- / -	- / -	- / -	- / -	- / -	- / 75.185
Non-Recurring												
1.2.1) NR Engineering - Organic	- / 16.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.636
1.2.2) Operational Flight Trainer (OFT) ECP - Organic	- / -	- / -	- / -	- / 0.270	- / -	- / 0.270	- / 0.260	- / 0.249	- / -	- / -	- / -	- / 0.779
1.2.3) HUD Cameras - Organic ⁽²⁰⁾	- / -	- / 0.200	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500
Subtotal: Non-Recurring	- / 16.636	- / 0.200	- / 0.300	- / 0.270	- / -	- / 0.270	- / 0.260	- / 0.249	- / -	- / -	- / -	- / 17.915
B Kits												
Recurring												
2.1.1) DDS (CSMU/CP/DAU) ECP-296JR1 - Organic ⁽²¹⁾	138 / 14.189	31 / 4.890	- / -	32 / 5.139	- / -	32 / 5.139	- / -	- / -	- / -	- / -	- / -	201 / 24.218
2.1.2) DDS (MDTU) - Organic ⁽²²⁾	- / -	240 / 0.141	100 / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	340 / 0.199
2.1.3) HUD Cameras - Organic ⁽²³⁾	- / -	- / -	9 / 0.189	65 / 1.390	- / -	65 / 1.390	65 / 1.415	60 / 1.329	- / -	- / -	- / -	199 / 4.323
2.1.4) Subsystems ECP - Organic ⁽²⁴⁾	60 / 1.260	- / -	40 / 2.427	60 / 3.711	- / -	60 / 3.711	150 / 9.264	94 / 5.805	28 / 1.729	28 / 1.760	- / -	460 / 25.956
2.1.5) DMSMS ECPs - Organic	- / -	- / -	46 / 0.992	110 / 2.331	- / -	110 / 2.331	244 / 5.148	- / -	- / -	- / -	- / -	400 / 8.471
2.1.6) Radar Altimeter - Organic	- / -	- / -	9 / 0.099	40 / 0.448	- / -	40 / 0.448	60 / 0.684	60 / 0.696	30 / 0.354	- / -	- / -	199 / 2.281
2.1.7) ARC-182 Radio Obsolescence - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.600	195 / 39.000	197 / 39.600
2.1.8) HUD PDU - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.500	194 / 97.000	197 / 98.500
2.1.9) Archived B Kits - Organic	1,246 / 52.409	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,246 / 52.409
Subtotal: Recurring	- / 67.858	- / 5.031	- / 3.765	- / 13.019	- / -	- / 13.019	- / 16.511	- / 7.830	- / 2.083	- / 3.860	- / 136.000	- / 255.957
Non-Recurring												
2.2.1) DDS (MDTU) - Organic	- / -	- / 0.819	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.819
2.2.2) HUD Cameras - Organic ⁽²⁵⁾	- / -	- / 0.300	- / 1.000	- / 0.600	- / -	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / 1.900
2.2.3) MDP Software - Organic	- / 7.215	- / 0.500	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.215
2.2.4) JMPS - Organic ⁽²⁶⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.000	- / 1.321	- / -	- / -	- / -	- / 4.321

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		P-1 Line Item Number / Title: 0569 / T-45 Series
Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)		

Models of Systems Affected: T-45TS A/C	Modification Type: PS Safety	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.2.5) Subsystem ECPs - Organic ⁽²⁷⁾	- / 1.040	- / -	- / -	- / 10.500	- / -	- / 10.500	- / 10.500	- / 10.500	- / 10.500	- / 10.500	- / 13.000	- / 16.540
2.2.6) DMSMS ECPs - Organic ⁽²⁸⁾	- / 10.402	- / 11.700	- / 11.700	- / 11.734	- / -	- / 11.734	- / 11.768	- / 11.804	- / 11.840	- / 11.877	- / 111.262	- / 124.087
2.2.7) DDS (DAU) - Organic	- / 11.552	- / 10.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.176
2.2.8) Radar Altimeter - Organic ⁽²⁹⁾	- / -	- / -	- / 13.000	- / 11.376	- / -	- / 11.376	- / 10.500	- / -	- / -	- / -	- / -	- / 14.876
2.2.9) VMTS Software Mod - Organic ⁽³⁰⁾	- / -	- / 13.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.500
2.2.10) ARC-182 Radio Obsolescence - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.000	- / 12.600	- / 17.600
2.2.11) HUD PDU Obsolescence - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.500	- / 15.100	- / 111.600
<i>Subtotal: Non-Recurring</i>	- / 10.209	- / 7.443	- / 6.200	- / 4.210	- / -	- / 4.210	- / 5.768	- / 3.625	- / 2.340	- / 13.877	- / 21.962	- / 75.634
<i>Subtotal: Avionics Obsolescence (OSIP 017-04)</i>	2,067 / 169.337	302 / 12.932	204 / 10.265	339 / 17.792	- / -	339 / 17.792	519 / 22.539	214 / 11.704	58 / 4.423	33 / 17.737	389 / 157.962	4,125 / 424.691
<i>Subtotal: Procurement, All Modification Items</i>	- / 169.337	- / 12.932	- / 10.265	- / 17.792	- / -	- / 17.792	- / 22.539	- / 11.704	- / 4.423	- / 17.737	- / 157.962	- / 424.691
Support (All Modification Items)												
3.3) Training Equipment	6 / 30.355	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 30.355
3.4) Support Equipment N/R	- / 10.072	- / 10.050	- / 10.050	- / 10.050	- / -	- / 10.050	- / 10.050	- / 10.050	- / 10.050	- / 10.050	- / 10.300	- / 10.722
3.5) ILS ⁽³¹⁾	- / 12.093	- / 11.124	- / 13.033	- / 12.592	- / -	- / 12.592	- / 12.640	- / 12.688	- / 12.492	- / 12.537	- / 111.376	- / 140.575
3.6) Other Support ⁽³²⁾	- / 120.657	- / 14.598	- / 13.796	- / 13.045	- / -	- / 13.045	- / 12.945	- / 13.274	- / 12.907	- / 12.960	- / 124.455	- / 168.637
<i>Subtotal: Support</i>	- / 63.177	- / 5.772	- / 6.879	- / 5.687	- / -	- / 5.687	- / 5.635	- / 6.012	- / 5.449	- / 5.547	- / 36.131	- / 140.289
Installation												
<i>Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)</i>	- / 15.310	- / 5.338	- / 10.786	- / 10.512	- / -	- / 10.512	- / 10.438	- / -	- / -	- / -	- / -	- / 22.384
<i>Subtotal: Installation</i>	- / 15.310	- / 5.338	- / 10.786	- / 10.512	- / -	- / 10.512	- / 10.438	- / -	- / -	- / -	- / -	- / 22.384
Total												
Total Cost (Procurement + Support + Installation)	247.824	24.042	17.930	23.991	-	23.991	28.612	17.716	9.872	23.284	194.093	587.364

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)

Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)

Manufacturer Information

Manufacturer Name: Boeing - RAMP Kits	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 12	Production Leadtime (in Months): 24

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: Various - Obsolescence Kits ⁽³³⁾	Manufacturer Location: Various
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Manufacturer Name: Physical Optics CORP - DDS (CSMU/CP/DAU)	Manufacturer Location: Torrance, CA
Administrative Leadtime (in Months): 11	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Aug 2015	Aug 2016	Aug 2017				
Delivery Dates	Aug 2016	Aug 2017	Aug 2018				

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: RAMP KITS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	59 / 13.902	11 / 4.708	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	70 / 18.610
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	59 / 13.902	11 / 4.708	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 18.610

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Exhibit P-3a, Individual Modification: PB 2017 Navy															Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1										P-1 Line Item Number / Title: 0569 / T-45 Series										Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)									

Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: RAMP KITS

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot						
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4								
In	59	4	3	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
Out	59	4	3	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70

Method of Implementation: Contractor Depot Field Mod Team:: Installation Name: Obsolescence Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Prior Years	319 / 1.364	48 / 0.444	48 / 0.444	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	319 / 1.364	48 / 0.444	48 / 0.444	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	415 / 2.252

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot						
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4								
In	319	12	12	12	12	12	12	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	415
Out	319	12	12	12	12	12	12	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	415

Method of Implementation: Contractor Field Mod Team:: Installation Name: DDS (CSMU/CP/DAU)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
	Prior Years	6 / 0.044	23 / 0.186	57 / 0.342	52 / 0.421	- / 0.000	52 / 0.421	- / -	- / -	- / -	- / -	- / 0.000
FY 2015	- / -	- / -	- / -	11 / 0.091	- / -	11 / 0.091	20 / 0.165	- / -	- / -	- / -	- / -	31 / 0.256

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)

Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: DDS (CSMU/CP/DAU)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.273	- / -	- / -	- / -	- / -	32 / 0.273
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 0.044	23 / 0.186	57 / 0.342	63 / 0.512	- / -	63 / 0.512	52 / 0.438	- / -	- / -	- / -	- / -	201 / 1.522

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	6	4	5	7	7	14	14	14	15	15	16	16	16	13	13	13	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	201
Out	6	4	5	7	7	14	14	14	15	15	16	16	16	13	13	13	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	201

Method of Implementation (Organic): DDS (CSMU/CP/DAU) ECP-296JR1	Installation Quantity: 201
Method of Implementation (Organic): DDS (MDTU)	Installation Quantity: 340
Method of Implementation (Organic): HUD Cameras	Installation Quantity: 199
Method of Implementation (Organic): Subsystems ECP	Installation Quantity: 460
Method of Implementation (Organic): DMSMS ECPs	Installation Quantity: 400
Method of Implementation (Organic): Radar Altimeter	Installation Quantity: 199
Method of Implementation (Organic): ARC-182 Radio Obsolescence	Installation Quantity: 197

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)
Modification Item 1 of 1: Avionics Obsolescence (OSIP 017-04)		
Installation Information		
Method of Implementation (Organic): HUD PDU		Installation Quantity: 197
Method of Implementation (Organic): Archived B Kits - Not Installed		Installation Quantity: 1246
<p>Footnotes:</p> <p>(18) 1.1.2 FY 2016 install costs increased due to renegotiated contract.</p> <p>(19) 1.1.3 Kit pricing reflects contract pricing. Quantities adjusted to take advantage of quantity price break. Installs reflect 12 month lead time for delivery. Installs have commenced and are accelerating. CLS contract adjustments increased per unit price of installs. Quantities increased in FY 2014 and FY 2017.</p> <p>(20) 1.2.3 Digital Data Set (DDS) Increment III Wireless capability is no longer a requirement to implement Military Flight Operational Quality Assurance (MFOQA). MFOQA implementation will continue which requires addressing Heads Up Display (HUD) camera obsolescence.</p> <p>(21) 2.1.1 Kit pricing reflects contract pricing. Quantities adjusted to take advantage of quantity price break. Quantities increased in FY 2017.</p> <p>(22) 2.1.2 In FY 2016 100 additional Mission Data Transfer Units (MDTU) being procured in support of Chief of Naval Air Training (CNATRA) Military Flight Operational Quality Assurance (MFOQA) Concept of Operation.</p> <p>(23) 2.1.3 Digital Data Set (DDS) Increment III Wireless capability is no longer a requirement to implement Military Flight Operational Quality Assurance (MFOQA). MFOQA implementation will continue which requires addressing Heads Up Display (HUD) camera obsolescence. HUD Cameras Cost Element replaces the DDS Wireless Cost Element.</p> <p>(24) 2.1.4 Increased quantities in FY 2018 - FY 2021 due to anticipated subsystem obsolescence ECP.</p> <p>(25) 2.2.2 Digital Data Set (DDS) Increment III Wireless capability is no longer a requirement to implement Military Flight Operational Quality Assurance (MFOQA). MFOQA implementation will continue which requires addressing Heads Up Display (HUD) camera obsolescence. HUD Cameras Cost Element replaces the DDS Wireless Cost Element.</p> <p>(26) 2.2.4 Start of effort shifted to FY 2018.</p> <p>(27) 2.2.5 Funding starts in FY 2017 to cover multiple ECP NRE efforts for various subsystems.</p> <p>(28) 2.2.6 Funding to cover multiple ECP NRE efforts due to identified Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.</p> <p>(29) 2.2.9 NRE changes based on market research. Effort shifted right pending results of engineering investigation. FY 2017 reduced due to reduction in expected costs.</p> <p>(30) 2.2.9 Funding to modify the proprietary software (and possibly hardware) on the VMTS Instructor Ground Stations (IGS) and Debrief Stations (DBS) to enable continued operation of the VMTS after migrating to the Windows 7 operating system in compliance with cybersecurity mandates.</p> <p>(31) 3.5 Increase from FY 2015 to FY 2016 is due to an increase in Level of Effort for FY 2016.</p> <p>(32) 3.6 Adjustments in FY 2016 and out due to changes in manpower requirements.</p> <p>(33) Manufacturers, ALT and PLT are various</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series			Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)					

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	24.434	26.338	26.257	29.449	-	29.449	41.087	38.560	53.094	57.444	306.813	603.476
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	24.434	26.338	26.257	29.449	-	29.449	41.087	38.560	53.094	57.444	306.813	603.476
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	24.434	26.338	26.257	29.449	-	29.449	41.087	38.560	53.094	57.444	306.813	603.476
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This OSIP funds correction of deficiencies discovered in Service Life Assessment Program (SLAP) which identified risk areas that must be addressed in order to extend aircraft service life. Structural SLAP was completed during 1ST quarter 2012 and the Subsystems SLAP effort is ongoing. Service Life Extension Programs (SLEP): During Full Scale Development testing of the T45 aircraft it was determined that incorporation of redesigned components applicable to the critical load paths will significantly increase the service life of the aircraft. Correcting these areas is required to achieve the safe design life associated with the program of record. Non-Recurring Engineering for SLEP modifications will incorporate changes to improve subsystem and structural details to increase aircraft service life to 21,600 flight hours at 150% Fatigue Life Expended (FLE) which enables CNATRA pilot training requirements to be safely met until 2035. The other support and Non-Recurring Engineering costs in FY-15 and beyond are to fund Government labor to perform engineering, test, logistics and financial management tasks, and to execute SLEP modifications associated with this OSIP. This support will be executed in accordance with the FMR and NAVAIR policy.

Development Status/Major Milestones: Non-Recurring Engineering for SLEP modifications will incorporate changes to improve structural details to increase aircraft service life to 21,600 flight hours at 150% FLE which enables Chief of Naval Air Training pilot training requirements to be safely met until 2035.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)			
Models of Systems Affected: T-45TS				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities				Related RDT&E PEs: 0702207N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Service Life Extension Program (SLEP) (022-14)</i>													
A Kits													
Recurring													
1.1.1) Structural SLEP - NonOrganic	- / -	2 / 1.365	- / -	3 / 1.409	- / -	3 / 1.409	12 / 5.741	24 / 11.694	24 / 11.907	24 / 12.119	110 / 58.294	199 / 102.529	
1.1.2) SLEP Wings - NonOrganic ⁽³⁴⁾	- / -	1 / 14.000	1 / 14.252	1 / 14.504	- / -	1 / 14.504	1 / 14.756	- / -	- / -	- / -	- / -	4 / 57.512	
<i>Subtotal: Recurring</i>	- / 0.000	- / 15.365	- / 14.252	- / 15.913	- / -	- / 15.913	- / 20.497	- / 11.694	- / 11.907	- / 12.119	- / 58.294	- / 160.041	
Non-Recurring													
1.2.1) Structural SLEP NRE - Organic ⁽³⁵⁾	- / 8.597	- / 8.219	- / 5.643	- / 4.833	- / -	- / 4.833	- / -	- / -	- / -	- / -	- / -	- / 27.292	
1.2.2) SLEP Wings NRE - Organic	- / 14.242	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.242	
1.2.3) NACES SLEP NRE - Organic ⁽³⁶⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.100	- / 1.600	- / 3.700	
<i>Subtotal: Non-Recurring</i>	- / 22.839	- / 8.219	- / 5.643	- / 4.833	- / -	- / 4.833	- / -	- / -	- / -	- / 2.100	- / 1.600	- / 45.234	
<i>Subtotal: Service Life Extension Program (SLEP) (022-14)</i>	- / 22.839	3 / 23.584	1 / 19.895	4 / 20.746	- / -	4 / 20.746	13 / 20.497	24 / 11.694	24 / 11.907	24 / 14.219	110 / 59.894	203 / 205.275	
<i>Subtotal: Procurement, All Modification Items</i>	- / 22.839	- / 23.584	- / 19.895	- / 20.746	- / -	- / 20.746	- / 20.497	- / 11.694	- / 11.907	- / 14.219	- / 59.894	- / 205.275	
Support (All Modification Items)													
2.2) Data	- / -	- / -	- / 0.255	- / 0.260	- / -	- / 0.260	- / 0.264	- / 0.269	- / 0.274	- / 0.279	- / 1.471	- / 3.072	
2.4) Support Equipment ⁽³⁷⁾	- / -	- / 0.950	- / 3.221	- / 1.905	- / -	- / 1.905	- / 6.600	- / 3.234	- / 0.329	- / 0.332	- / 1.767	- / 18.338	
2.5) ILS ⁽³⁸⁾	- / -	- / 0.204	- / 0.624	- / 0.636	- / -	- / 0.636	- / 2.603	- / 2.651	- / 2.207	- / 2.656	- / 16.070	- / 27.651	
2.6) Other Support ⁽³⁹⁾	- / 1.595	- / 1.600	- / 2.262	- / 2.389	- / -	- / 2.389	- / 6.733	- / 3.857	- / 4.403	- / 5.373	- / 36.805	- / 65.017	
<i>Subtotal: Support</i>	- / 1.595	- / 2.754	- / 6.362	- / 5.190	- / -	- / 5.190	- / 16.200	- / 10.011	- / 7.213	- / 8.640	- / 56.113	- / 114.078	
Installation													
<i>Modification Item 1 of 1: Service Life Extension Program (SLEP) (022-14)</i>	- / 0.000	- / -	- / -	- / 3.513	- / -	- / 3.513	- / 4.390	- / 16.855	- / 33.974	- / 34.585	- / 190.806	- / 284.123	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 3.513	- / -	- / 3.513	- / 4.390	- / 16.855	- / 33.974	- / 34.585	- / 190.806	- / 284.123	
Total													
Total Cost (Procurement + Support + Installation)	24.434	26.338	26.257	29.449	-	29.449	41.087	38.560	53.094	57.444	306.813	603.476	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)

Modification Item 1 of 1: Service Life Extension Program (SLEP) (022-14)

Manufacturer Information

Manufacturer Name: Boeing - Structural SLEP and SLEP Wing ⁽⁴⁰⁾	Manufacturer Location: St. Louis
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Sep 2015	Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021
Delivery Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022	Mar 2023

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: SLEP Installs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	2 / 3.513	- / -	2 / 3.513	1 / 0.337	- / -	- / -	- / -	- / -	3 / 3.850
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.343	- / -	- / -	- / -	1 / 0.343
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	3 / 4.053	- / -	1 / 0.349	- / -	- / -	4 / 4.402
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 16.512	- / -	1 / 0.355	- / -	13 / 16.867
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 33.625	- / -	- / -	24 / 33.625
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 34.230	- / -	24 / 34.230
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 35.208	24 / 35.208
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 155.598	110 / 155.598
Total	- / -	- / -	- / -	2 / 3.513	- / -	2 / 3.513	4 / 4.390	13 / 16.855	25 / 33.974	25 / 34.585	134 / 190.806	203 / 284.123

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	2	2	3	3	3	4	6	6	6	7	6	6	6	7	134	203
Out	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	3	1	3	3	4	3	6	6	7	6	6	6	7	140	203

Footnotes:

⁽³⁴⁾ 1.1.2 The Pensacola aircraft usage spectrum is expected to be significantly different from Kingsville/Meridian. The stress on the wings is expected to impact fleet readiness in the near future. As part of the on-going aircraft structural integrity plan we plan to do a detailed usage survey in FY 2017 when they have accumulated sufficient data to establish regular usage patterns. Until then, the program sees the need to move wing purchases to the left and plan for greater fatigue, by procuring more wings. Variance in install cost is due to complexity of kit.

⁽³⁵⁾ 1.2.1 Fluctuation of NRE cost FY 2015-FY 2017 is due to SLEP NRE phase 1B program phasing based on proposal.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)

(36) 1.2.3 Addition of NACES SLEP NRE in FY 2021 is added for secondary structure modifications to extend the life of the NACES seat to FY 2035.

(37) 2.4 FY 2016 increase in SLEP SE due to standing up Depot SE for Val/Ver. FY 2018 and FY 2019 increase is due to standing up mod line with full up SE required to support and bumping up quantities due to throughput of SLEP installs.

(38) 2.5 Increase in FY 2018 is to provide on-site installation support to coincide with start of recurring installs in FY 2018.

(39) 2.6 Increase in FY 2016 and out reflects support required to accommodate kit procurement and installation.

(40) Will be installed concurrently. Various contract dates, ALT and PLT.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0569 / T-45 Series				Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	5.617	27.217	-	27.217	39.966	65.973	56.848	23.354	22.852	241.827
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	5.617	27.217	-	27.217	39.966	65.973	56.848	23.354	22.852	241.827
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	5.617	27.217	-	27.217	39.966	65.973	56.848	23.354	22.852	241.827

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FAA has developed a plan to modernize the National Airspace System (NAS) in order to address the impact of air traffic growth in the United States. The FAA has mandated compliance with this plan by January 1, 2020. This plan, part of the FAA's NextGen Airspace, is intended to increase the air traffic capacity while at the same time improving safety and efficiency. In part, NextGen implements a process called Performance Based Navigation (PBN). In accordance with the concepts of PBN, an aircraft's navigation performance capability will be a determining factor as to whether or not it can fly within specific airspace, certain air traffic routes or instrument procedures. Also, NextGen transforms the NAS from a radar based system, with aircraft interrogation, to a satellite based system utilizing Automatic Dependent Surveillance-Broadcast (ADS-B) communication in order to transmit the aircraft's own position. In order for the T-45 to continue to have unrestricted access to the NAS through the year 2035, the T-45TS must be modified to avoid impacts to CNATRA Strike Pilot and NFO training.

Required Avionics Sustainment Program (RASP) Phase I Automatic Dependent Surveillance-Broadcast (ADS-B (Out)): The first Phase of RASP will modify the T-45 with ADS-B (Out) capability, in compliance with FAA NAS mandate stipulated in DoT/FAA, 14 CFR Part 91: Automatic Dependent Surveillance-Broadcast ADS-B (Out) Performance Requirements To Support Air Traffic Control (ATC) Service Final Rule, May 28, 2010. This modification is an ACAT III program and consists of the minimum required capability increase necessary to enable ADS-B (Out), equipping 197 T-45 aircraft and 18 simulators to meet FAA NAS mandates. The ADS-B (Out) capability requires the modification of the Global Position System/Inertial Navigation Assembly (GINA), the existing antennas, and the Mission Display Processor (MDP) Operational Flight Program (OFP) software, as well as changes to the simulator and any associated support equipment. It also requires integration with the replacement to the Transponder (with associated data bus connectivity and control), changes to the pilot interface, and the replacement Air Data Computer which are funded with RDT&E.

FY 2016 provided funding for the Non-Recurring Engineering involved in the modifications and integration of the ADS-B (Out) in the T-45TS. FY 2017 provides funding for integration and testing in support of certification to comply with the January 1, 2020 Federal Aviation Administration National Airspace Systems Mandate.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Efforts for design and integration of ADS-B (Out) into the T-45 began in FY 2016 to begin the GINA and antenna modifications which are enablers to overall ADS-B Out system. FY 2017 provides funding for integration and operational testing of modified components in support of FAA certification. Overall ADS-B Out system Milestone B is planned for 2nd quarter FY 2017 with Milestone C planned for 3rd quarter FY 2018.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)

Models of Systems Affected: T45TS	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities	Related RDT&E PEs: 0603208N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: Required Avionics Sustainment Program (RASP) (006-16)

A Kits

Recurring

1.1.1) Transponder - NonOrganic ⁽⁴¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.327	83 / 1.360	84 / 1.379	7 / 0.115	- / -	194 / 3.181
1.1.2) GPS - NonOrganic ⁽⁴²⁾	- / -	- / -	3 / 0.078	- / -	- / -	- / -	20 / 0.522	83 / 2.170	84 / 2.200	7 / 0.184	- / -	197 / 5.154
1.1.3) Antennas - NonOrganic ⁽⁴³⁾	- / -	- / -	3 / 0.009	- / -	- / -	- / -	20 / 0.060	83 / 0.250	84 / 0.254	7 / 0.021	- / -	197 / 0.594
1.1.4) Air Data Computer - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.161	83 / 0.668	84 / 0.677	7 / 0.057	- / -	194 / 1.563
1.1.5) GBTS - NonOrganic ⁽⁴⁴⁾	- / -	- / -	- / -	2 / 0.002	- / -	2 / 0.002	4 / 0.004	5 / 0.005	1 / 0.001	- / -	- / -	12 / 0.012
Subtotal: Recurring	- / 0.000	- / -	- / 0.087	- / 0.002	- / -	- / 0.002	- / 1.074	- / 4.453	- / 4.511	- / 0.377	- / -	- / 10.504

Non-Recurring

1.2.1) A kit N/R - NonOrganic	- / -	- / -	- / 0.160	- / 3.200	- / -	- / 3.200	- / 3.703	- / 2.745	- / -	- / -	- / -	- / 9.808
1.2.2) GBTS A Kit N/R - NonOrganic	- / -	- / -	- / 0.200	- / 0.693	- / -	- / 0.693	- / 0.720	- / 0.405	- / -	- / -	- / -	- / 2.018
Subtotal: Non-Recurring	- / 0.000	- / -	- / 0.360	- / 3.893	- / -	- / 3.893	- / 4.423	- / 3.150	- / -	- / -	- / -	- / 11.826

B Kits

Recurring

2.1.1) Transponder - Organic ⁽⁴⁵⁾	- / -	- / -	- / -	- / -	- / -	- / -	20 / 3.212	83 / 13.352	84 / 13.537	7 / 1.130	- / -	194 / 31.231
2.1.2) GPS - Organic ⁽⁴⁶⁾	- / -	- / -	3 / 0.453	- / -	- / -	- / -	20 / 3.031	83 / 12.601	84 / 7.392	7 / 0.617	- / -	197 / 24.094
2.1.3) Air Data Computer - Organic ⁽⁴⁷⁾	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.626	83 / 6.759	84 / 6.853	7 / 0.572	- / -	194 / 15.810
2.1.4) GBTS - Organic ⁽⁴⁸⁾	- / -	- / -	- / -	2 / 0.056	- / -	2 / 0.056	4 / 0.112	5 / 0.141	1 / 0.028	- / -	- / -	12 / 0.337
Subtotal: Recurring	- / 0.000	- / -	- / 0.453	- / 0.056	- / -	- / 0.056	- / 7.981	- / 32.853	- / 27.810	- / 2.319	- / -	- / 71.472

Non-Recurring

2.2.1) B Kit N/R - NonOrganic ⁽⁴⁹⁾	- / -	- / -	- / 2.100	- / 9.693	- / -	- / 9.693	- / 5.186	- / 2.113	- / -	- / -	- / -	- / 19.092
2.2.2) GBTS B Kit N/R - NonOrganic ⁽⁵⁰⁾	- / -	- / -	- / 0.200	- / 2.363	- / -	- / 2.363	- / 4.367	- / 1.371	- / -	- / -	- / -	- / 8.301
Subtotal: Non-Recurring	- / 0.000	- / -	- / 2.300	- / 12.056	- / -	- / 12.056	- / 9.553	- / 3.484	- / -	- / -	- / -	- / 27.393
Subtotal: Required Avionics Sustainment Program (RASP) (006-16)	- / -	- / -	9 / 3.200	4 / 16.007	- / -	4 / 16.007	148 / 23.031	591 / 43.940	590 / 32.321	49 / 2.696	- / -	1,391 / 121.195
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / 3.200	- / 16.007	- / -	- / 16.007	- / 23.031	- / 43.940	- / 32.321	- / 2.696	- / -	- / 121.195

Support (All Modification Items)

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)

Models of Systems Affected: T45TS	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities	Related RDT&E PEs: 0603208N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.2) Data ⁽⁵¹⁾	- / -	- / -	- / 0.175	- / 2.530	- / -	- / 2.530	- / 2.573	- / 2.586	- / -	- / -	- / -	- / 7.864
3.3) Training Equipment	- / -	- / -	- / -	- / 0.190	- / -	- / 0.190	- / 0.612	- / 0.614	- / -	- / -	- / -	- / 1.416
3.4) Support Equipment N/R	- / -	- / -	- / -	- / 0.160	- / -	- / 0.160	- / 1.441	- / 1.444	- / -	- / -	- / -	- / 3.045
3.5) Software ⁽⁵²⁾	- / -	- / -	- / 0.851	- / 1.751	- / -	- / 1.751	- / 1.967	- / 1.246	- / 0.004	- / -	- / -	- / 5.819
3.6) ILS ⁽⁵³⁾	- / -	- / -	- / 0.124	- / 1.516	- / -	- / 1.516	- / 1.549	- / 1.553	- / 1.080	- / 1.099	- / 9.918	- / 16.839
3.7) Other Support ⁽⁵⁴⁾	- / -	- / -	- / 1.267	- / 4.771	- / -	- / 4.771	- / 7.914	- / 5.109	- / 3.571	- / 3.702	- / 12.934	- / 39.268
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 2.417	- / 10.918	- / -	- / 10.918	- / 16.056	- / 12.552	- / 4.655	- / 4.801	- / 22.852	- / 74.251
Installation												
<i>Modification Item 1 of 1:</i> Required Avionics Sustainment Program (RASP) (006-16)	- / 0.000	- / -	- / -	- / 0.292	- / -	- / 0.292	- / 0.879	- / 9.481	- / 19.872	- / 15.857	- / -	- / 46.381
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 0.292	- / -	- / 0.292	- / 0.879	- / 9.481	- / 19.872	- / 15.857	- / -	- / 46.381
Total												
Total Cost (Procurement + Support + Installation)	0.000	-	5.617	27.217	-	27.217	39.966	65.973	56.848	23.354	22.852	241.827

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)

Modification Item 1 of 1: Required Avionics Sustainment Program (RASP) (006-16)

Manufacturer Information

Manufacturer Name: Various - Transponder, GPS, Antennas and ADC ⁽⁵⁵⁾				Manufacturer Location: Various			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 11			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2015		Oct 2017	Oct 2018	Oct 2019	
Delivery Dates		Sep 2016		Sep 2018	Sep 2019	Sep 2020	

Manufacturer Name: TBD - Ground Based Training Systems ⁽⁵⁶⁾				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 11			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	
Delivery Dates		Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020	

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Transponder, GPS, Antennas, ADC

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	6 / 0.292	- / -	6 / 0.292	- / -	- / -	- / -	- / -	- / -	6 / 0.292
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.856	64 / 3.592	- / -	- / -	- / -	80 / 4.448
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	104 / 5.840	228 / 13.440	- / -	- / -	332 / 19.280
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	108 / 6.368	228 / 14.112	- / -	336 / 20.480
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.732	- / -	28 / 1.732
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	6 / 0.292	- / -	6 / 0.292	16 / 0.856	168 / 9.432	336 / 19.808	256 / 15.844	- / -	782 / 46.232

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)

Modification Item 1 of 1: Required Avionics Sustainment Program (RASP) (006-16)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Transponder, GPS, Antennas, ADC

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	4	2	-	4	-	12	-	16	48	104	84	84	84	84	112	116	28	-	-	782
Out	-	-	-	-	-	-	-	-	-	-	-	4	2	-	4	-	12	-	16	48	104	84	84	84	84	112	116	28	-	-	782

Method of Implementation: Contractor Field Mod Team:: Installation Name: GBTS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.023	- / -	- / -	- / -	- / -	2 / 0.023
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.049	- / -	- / -	- / -	4 / 0.049
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.064	- / -	- / -	5 / 0.064
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.013	- / -	1 / 0.013
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.023	4 / 0.049	5 / 0.064	1 / 0.013	- / -	12 / 0.149

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	1	1	2	1	1	1	1	-	-	-	-	12	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	1	1	2	1	1	1	1	-	-	-	-	12	

Method of Implementation (Organic): Transponder - Not Installed **Installation Quantity:** 194

Method of Implementation (Organic): GPS - Not Installed **Installation Quantity:** 197

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)
Modification Item 1 of 1: Required Avionics Sustainment Program (RASP) (006-16)		
Installation Information		
Method of Implementation (Organic): Air Data Computer - Not Installed		Installation Quantity: 194
Method of Implementation (Organic): GBTS - Not Installed		Installation Quantity: 12
<p>Footnotes:</p> <p>(41) 1.1.1 Test articles utilized during development are anticipated to be able to remain on aircraft resulting in 197 compliant aircraft.</p> <p>(42) 1.1.2 GPS is a modified component. 3 assets will be procured in FY16 and remain as modification on aircraft in support of overall ADS-B system integration efforts.</p> <p>(43) 1.1.3 Antennas are a modified component. 3 assets will be procured in FY 2016 and remain as modification on aircraft in support of overall ADS-B system integration efforts.</p> <p>(44) 1.1.5 GBTS procurement schedule adjusted to support updated install schedule.</p> <p>(45) 2.1.1 Test articles utilized during development are anticipated to be able to remain on aircraft resulting in 197 compliant aircraft.</p> <p>(46) 2.1.2 GPS is a modified component. 3 assets will be procured in FY 2016 and remain as modification on aircraft in support of overall ADS-B system integration efforts.</p> <p>(47) 2.1.3 No Antenna B-kits required because existing aircraft antennas will be used.</p> <p>(48) 2.1.4 GBTS procurement schedule adjusted to support updated install schedule.</p> <p>(49) 2.2.1 Increase in FY 2017 supports non-reoccurring engineering for aircraft integration Engineering Change Proposal efforts and design reviews.</p> <p>(50) 2.2.2 Increase in FY 2017 supports non-reoccurring engineering for GBTS, because aircraft modification design must be complete before the simulator modifications can be completed.</p> <p>(51) 3.2 Data for each component of ADS-B system to be procured between FY2016 and FY 2019.</p> <p>(52) 3.5 Increase from FY 2016 to FY 2017 due to software NRE and test for MDP OFP software modifications.</p> <p>(53) 3.6 ILS increase in FY 2017 is to support initial modified components that will be installed and remain on aircraft as modification.</p> <p>(54) 3.7 Increase in FY 2017 provides support for initial modifications to aircraft and operational testing of modified components.</p> <p>(55) Install schedule updated to reflect contract award date and new schedule.</p> <p>(56) Install schedule updated to reflect contract award date and new schedule.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 6 / Inactive OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	93.874	-	-	-	-	-	-	-	-	-	-	93.874
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	93.874	-	-	-	-	-	-	-	-	-	-	93.874
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	93.874	-	-	-	-	-	-	-	-	-	-	93.874
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 6 / Inactive OSIPs			
Models of Systems Affected: [No Model Specified]					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Inactive OSIPs													
A Kits													
Recurring													
1.1.1) Inactive OSIPs - Organic	- / 93.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 93.874	
<i>Subtotal: Recurring</i>	- / 93.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 93.874	
<i>Subtotal: Inactive OSIPs</i>	- / 93.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 93.874	
<i>Subtotal: Procurement, All Modification Items</i>	- / 93.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 93.874	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	93.874	-	-	-	-	-	-	-	-	-	-	93.874	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 6 / Inactive OSIPs
Modification Item 1 of 1: Inactive OSIPs		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0570 / Power Plant Changes
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	534.777	22.463	9.917	16.893	-	16.893	22.924	21.390	21.326	21.759	13.810	685.259
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	534.777	22.463	9.917	16.893	-	16.893	22.924	21.390	21.326	21.759	13.810	685.259
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	534.777	22.463	9.917	16.893	-	16.893	22.924	21.390	21.326	21.759	13.810	685.259

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to all in-service aircraft engines. Power Plant Changes (PPC) are required throughout the service life of each aircraft to correct flight deficiencies and improve operational readiness while reducing engine operating costs. This program finances the procurement and installation of retrofit kits for all Navy and Marine Corp aircraft engines and related propulsion hardware such as propellers, starters and transmissions. The overall goal of the modifications budgeted in FY 2017 is to continue modification efforts previously initiated on the engines for the AV-8B, F/A-18C/D & E/F, EA-18G, F-16, H-60, H-53, EA-6B, T-3, T-38, T-45, P-3, P-8A, E-2C, E-2D, C-2A, C-130, UH-1Y, AH-1Z, AH-1W, JSF, CH-53 and V-22.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0570 / Power Plant Changes

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Power Plant Changes (Approx. 80% Safety, 20% Reliability)			- / 534.777	- / 22.463	- / 9.917	- / 16.893	- / -	- / 16.893
P-40	Total Gross/Weapon System Cost			- / 534.777	- / 22.463	- / 9.917	- / 16.893	- / -	- / 16.893

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Power Plant Changes (Approx. 80% Safety, 20% Reliability)			- / 22.924	- / 21.390	- / 21.326	- / 21.759	- / 13.810	- / 685.259
P-40	Total Gross/Weapon System Cost			- / 22.924	- / 21.390	- / 21.326	- / 21.759	- / 13.810	- / 685.259

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The FY 2017 funding request was reduced by \$5.738M to account for the availability of prior year execution balances.

Decrease in Power Plant Changes by \$0.463M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

Funding for procurement and installation of retrofit kits for all Navy and Marine Corp aircraft engines and related propulsion hardware.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0570 / Power Plant Changes	Modification Number / Title: 1 / Power Plant Changes
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	534.777	22.463	9.917	16.893	-	16.893	22.924	21.390	21.326	21.759	13.810	685.259
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	534.777	22.463	9.917	16.893	-	16.893	22.924	21.390	21.326	21.759	13.810	685.259
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	534.777	22.463	9.917	16.893	-	16.893	22.924	21.390	21.326	21.759	13.810	685.259

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program corrects aircraft flight safety deficiencies, improves operational fleet readiness and reduces engine cost of ownership by incorporating approved power plant changes. Power plant changes are required throughout the aircraft service life as the engine ages and operationally revealed deficiencies are discovered, researched, and solutions engineered. The Component Improvement Program which is funded in Research Development Test & Evaluation, Navy develops and demonstrates engineering solutions to these deficiencies and through the Engineering Change Proposal (ECP) process, initiates Power Plant Change. The Power Plant Change program procures the necessary Power Plant Change retrofit kits, support equipment, kit installation and technical data. This program provides retrofit kits for all Navy and Marine Corp aircraft engines and propulsion related hardware such as propellers, starters, generators and transmissions. Reliability Improvements are designed to increase Mean Time Between Failure and Mean Time Between Engine Removal by 30 percent on average and are expected to generate savings /costs avoidance in excess of \$50M annually. Aircraft engines included in Power Plant Change include: F100 Engine, F-16, F402 Engine, AV/8B, F404 Engine, F/A18, F405 Engine, T-45, F414 Engine, F/A 18 E/F and EA-18G, J52 Engine, EA-6B, J85 Engine T-38 and T-2, T400 Engine AH-W, AE110 7Engine V-22, T56 Engine P-3, C-2, E-2D and C130, T58 Engine, H-3, T-64 Engine, H-53, T700 Engine H-60, AH-1W, AH-1Y and AH-Z, CFM56-7B Engine P8A and the F-35 starting in FY15.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0570 / Power Plant Changes					Modification Number / Title: 1 / Power Plant Changes			
Models of Systems Affected: Power Plant Changes					Modification Type: Approx. 80% Safety, 20% Reliability					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Power Plant Changes													
B Kits													
Recurring													
2.1.1) F405 T45 - NonOrganic	- / 0.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.236	
2.1.2) CFM 56-7B - NonOrganic ⁽¹⁾	- / 1.221	- / -	- / 0.260	- / 0.520	- / -	- / 0.520	- / 0.530	- / 0.540	- / 0.550	- / 0.540	- / 1.510	- / 5.671	
2.1.3) F402 AV8B - NonOrganic ⁽²⁾	- / 25.806	- / 2.532	- / 0.480	- / 1.459	- / -	- / 1.459	- / 2.150	- / 1.734	- / 1.768	- / 1.768	- / 2.000	- / 39.697	
2.1.4) F404 F/A 18 - NonOrganic ⁽³⁾	- / 22.904	- / 2.351	- / 1.000	- / 1.000	- / -	- / 1.000	- / 1.598	- / 1.368	- / 1.080	- / 1.011	- / 0.800	- / 33.112	
2.1.5) F414 F/A 18 E/F - NonOrganic ⁽⁴⁾	- / 18.987	- / 1.240	- / 0.759	- / 0.850	- / -	- / 0.850	- / 1.224	- / 1.224	- / 1.248	- / 1.248	- / 1.000	- / 27.780	
2.1.6) T56 P3, C2, E2, C130 - NonOrganic ⁽⁵⁾	- / 58.517	- / 4.212	- / 0.708	- / 4.120	- / -	- / 4.120	- / 5.350	- / 4.656	- / 4.749	- / 4.738	- / 5.000	- / 92.050	
2.1.7) T64 H53 - NonOrganic	- / 40.632	- / 4.411	- / 2.050	- / 1.139	- / -	- / 1.139	- / 4.050	- / 4.005	- / 3.955	- / 4.050	- / 2.500	- / 66.792	
2.1.8) T700 H60 - NonOrganic ⁽⁶⁾	- / 47.250	- / 1.408	- / 0.250	- / 1.500	- / -	- / 1.500	- / 1.560	- / 1.560	- / 1.591	- / 1.591	- / 1.000	- / 57.710	
2.1.9) Completed ECPs from prior years - Organic	- / 244.829	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 244.829	
2.1.10) Installation Equipment N/R - NonOrganic	- / 0.164	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.164	
Subtotal: Recurring	- / 460.546	- / 16.154	- / 5.507	- / 10.588	- / -	- / 10.588	- / 16.462	- / 15.087	- / 14.941	- / 14.946	- / 13.810	- / 568.041	
Subtotal: Power Plant Changes	- / 460.546	- / 16.154	- / 5.507	- / 10.588	- / -	- / 10.588	- / 16.462	- / 15.087	- / 14.941	- / 14.946	- / 13.810	- / 568.041	
Subtotal: Procurement, All Modification Items	- / 460.546	- / 16.154	- / 5.507	- / 10.588	- / -	- / 10.588	- / 16.462	- / 15.087	- / 14.941	- / 14.946	- / 13.810	- / 568.041	
Support (All Modification Items)													
3.1) Data	- / 1.003	- / 0.052	- / 0.053	- / 0.054	- / -	- / 0.054	- / 0.056	- / 0.056	- / 0.057	- / 0.055	- / -	- / 1.386	
3.2) Support equipment	- / 1.101	- / 0.052	- / 0.053	- / 0.054	- / -	- / 0.054	- / 0.056	- / 0.056	- / 0.057	- / 0.057	- / -	- / 1.486	
3.3) ILS ⁽⁷⁾	- / 10.593	- / 1.662	- / 0.695	- / 1.797	- / -	- / 1.797	- / 1.836	- / 1.797	- / 1.832	- / 1.832	- / -	- / 22.044	
3.4) Support Costs Other ⁽⁸⁾	- / 61.034	- / 2.043	- / 1.524	- / 2.500	- / -	- / 2.500	- / 2.614	- / 2.454	- / 2.499	- / 2.894	- / -	- / 77.562	
Subtotal: Support	- / 73.731	- / 3.809	- / 2.325	- / 4.405	- / -	- / 4.405	- / 4.562	- / 4.363	- / 4.445	- / 4.838	- / -	- / 102.478	
Installation													
Modification Item 1 of 1: Power Plant Changes	- / 0.500	- / 2.500	- / 2.085	- / 1.900	- / -	- / 1.900	- / 1.900	- / 1.940	- / 1.940	- / 1.975	- / -	- / 14.740	
Subtotal: Installation	- / 0.500	- / 2.500	- / 2.085	- / 1.900	- / -	- / 1.900	- / 1.900	- / 1.940	- / 1.940	- / 1.975	- / -	- / 14.740	
Total													
Total Cost (Procurement + Support + Installation)	534.777	22.463	9.917	16.893	-	16.893	22.924	21.390	21.326	21.759	13.810	685.259	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0570 / Power Plant Changes	Modification Number / Title: 1 / Power Plant Changes

Modification Item 1 of 1: Power Plant Changes

Manufacturer Information

Manufacturer Name: Various PPC ⁽⁹⁾				Manufacturer Location: Various			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: See Notes:: Installation Name: Power Plant Installations

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.500	- / 2.500	- / 2.085	- / 1.900	- / 0.000	- / 1.900	- / 1.900	- / 1.940	- / 1.940	- / 1.975	- / 0.000	- / 14.740
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.500	- / 2.500	- / 2.085	- / 1.900	- / -	- / 1.900	- / 1.900	- / 1.940	- / 1.940	- / 1.975	- / -	- / 14.740

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Method of Implementation (Organic): Completed ECPs from prior years - Not Installed

Installation Quantity: 0

Footnotes:

- (1) Increase in FY17 is based on a FY16 Total Obligation Authority reduction with funding restored in FY17. Kit procurements resume in FY17 at required levels.
- (2) Increase in FY17 is based on a FY16 Total Obligation Authority reduction with funding restored in FY17. Kit purchases budgeted accordingly.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0570 / Power Plant Changes	Modification Number / Title: 1 / Power Plant Changes

- (3) Unit cost growth in FY18/FY19 due to expensive Flame-holder attachment kits. There are two ECPs, one for the F404-400 and one for the F404-402.
- (4) FY15 increase due to FY14 purchases being procured with Reclamation credits.
- (5) Fail to Feather (FTF) modification kits being purchased in FY15.
- (6) Increase in FY17 is based on a FY16 Total Obligation Authority reduction with funding restored in FY17. Procurements resume to required levels in FY17
- (7) ILS was reduced in FY16 and resumes to required levels in FY17.
- (8) Support Cost increase from FY16 to FY17 due to planned support of the Joint Strike Fighter.
- (9) Admin and Production Leadtimes are averages with various contract and delivery dates

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 560	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.621	1.085	12.537	17.401	-	17.401	38.354	52.303	38.872	39.655	19.265	247.093
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.621	1.085	12.537	17.401	-	17.401	38.354	52.303	38.872	39.655	19.265	247.093
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.621	1.085	12.537	17.401	-	17.401	38.354	52.303	38.872	39.655	19.265	247.093

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in JT PRIMARY ACFT TRNR SYS (JPATS) by \$0.464M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

This line item funds modifications to the Joint Primary Aircraft Training System (JPATS). JPATS is a joint United States Navy (USN)/United States Air Force acquisition program designed to replace the aging primary aircraft (T-34/T-37) fleet. Principal JPATS mission is primary training for entry-level Navy/Air Force student pilots, associated instructor pilots, and primary/intermediate training for USN Naval Flight Officers. JPATS includes the T-6 Texan II which is a stepped tandem seat, commercially derived aircraft powered by a single Pratt & Whitney PT6A-68 turboprop engine. It serves as the aircraft component of the JPATS integrated primary pilot training system which replaces the T-34C primary training aircraft.

The program of record states 295 USN T-6 aircraft (includes 43 T-6A and 252 T-6B aircraft). Service Life - 2035.

The overall goal of the modifications budgeted in Fiscal Year 2017 is to correct discrepancies and deficiencies discovered after delivery of the aircraft; and to maintain, where appropriate, joint configuration with Air Force aircraft. The T-6B derivative incorporates major upgrades to the aircraft cockpit, navigation system, and aircrew life support system.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 560	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04) (PS Safety)			- / 27.621	- / 1.085	- / 10.167	- / 8.420	- / -	- / 8.420
P-3a	2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)			- / 0.000	- / -	- / 2.370	- / 8.981	- / -	- / 8.981
P-40	Total Gross/Weapon System Cost			- / 27.621	- / 1.085	- / 12.537	- / 17.401	- / -	- / 17.401

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04) (PS Safety)			- / 14.639	- / 18.865	- / 24.384	- / 39.655	- / 19.265	- / 164.101
P-3a	2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)			- / 23.715	- / 33.438	- / 14.488	- / -	- / -	- / 82.992
P-40	Total Gross/Weapon System Cost			- / 38.354	- / 52.303	- / 38.872	- / 39.655	- / 19.265	- / 247.093

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 Funding in Fiscal Year 2017 is required for correction of deficiencies and avionics upgrades FAA compliance kit procurements and support for Joint Primary Aircraft Training System retrofits.

Fiscal Year 2017 correction of deficiencies efforts include but are not limited to Canopy Fracturing Initiation System - Ballistic (CFIS-B) retrofit, Auto Ignition Relay retrofit, ejection seat Safe Arm Handle modifications, non-recurring engineering, and associated labor efforts. These efforts are required to maintain T-6 fleet aircraft safety, reliability and performance of T-6 aircraft for the training of entry-level Navy student pilots, associated instructor pilots and primary/intermediate training for USN Naval Flight Officers.

On May 28, 2010, the FAA released DoT/FAA, 14 CFR Part 91: Automatic Dependent Surveillance-Broadcast (ADS-B) Out Performance Requirements to support Air Traffic Control (ATC) Service Final Rule. This mandate stipulates that all aircraft required to have unrestricted access to operate in classes A, B, and C airspace, certain class E airspace, and other specified airspace requiring ADS-B Out must be in compliance with this regulation by January 1, 2020. Compliance with this rule necessitates ADS-B kit procurement, installation and associated labor efforts for T-6A and T-6B aircraft and Ground Based Training Systems (GBTS).

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)					Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.621	1.085	10.167	8.420	-	8.420	14.639	18.865	24.384	39.655	19.265	164.101
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.621	1.085	10.167	8.420	-	8.420	14.639	18.865	24.384	39.655	19.265	164.101
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.621	1.085	10.167	8.420	-	8.420	14.639	18.865	24.384	39.655	19.265	164.101

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Corrections to deficiencies found during testing and evaluation can sometimes be incorporated into production aircraft, effective with the physical configuration audit which establishes the product baseline of the aircraft. However when this cannot be done due to time constraints, retrofit of the changes into already delivered aircraft requires funding through the Aircraft Modification Program. Additionally, deficiencies discovered during Fleet operations must be corrected. The unacceptable alternative to retrofitting would be multiple configurations in the Fleet, which creates maintenance and supply problems, and in many cases the mission capability of the aircraft would be adversely affected as well as reduced service life.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: February 1993 received Milestone (MS) 0 and MS I approval, August 1995 received MS II and Low Rate Initial Production approval, December 2001 received MS III approval, and Navy Initial Operational Capability occurred 4th Qtr Fiscal Year 2003. Funding in Fiscal Year 2017 is required for Canopy Fracturing Initiation System (CFIS) - Ballistic, Auto Ignition Relay, Canopy Seal Valve, Safe Arm Handle, non-recurring engineering, and support costs for the Joint Primary Aircraft Training System retrofits.

CURRENT ACTIVE MODIFICATIONS:

- 1) Canopy Fracturing Initiation System (CFIS) - Replace current laser CFIS with a ballistic CFIS that will improve reliability and reduce life-cycle costs. Retrofit effort includes hardware required for aircraft A-kit.
- 2) Power Control Lever (PCL) - Safety related effort to install a mechanical barrier to PCL to prevent inadvertent engine shutdown (cut-off). Result of Class A safety investigation.
- 3) Airframe Structural/Sub-systems - retrofit of structural and sub-system ECP's to correct safety of flight related issues and deficiencies.
- 4) Rudder Pedal Instrumented - Replaces rudder pedals with instrumented rudder pedals to collect data on pedal forces exerted during rudder binding events.
- 5) Auto Ignition Relay - A more reliable relay is required to increase reliability of the auto-ignition system and increase the accessibility which will also lead to reduced maintenance man-hours.
- 6) Flight Management System (FMS) - Software changes have been identified to improve FMS efficiency of use, reduce aircrew workload and improve aircraft safety of flight operations. Additionally, this modification effort will incorporate Spiral 1 capabilities.
- 7) Avionics Obsolescence - Replace avionics components due to Diminishing Manufacturing Sources and Material Shortages (DMSMS) that result in part obsolescence and/or technical obsolescence. Modifications to the avionics will be required to upgrade the electronic flight instrument displays, Altitude and Heading Reference (AHRS) controller, and backup flight instruments and those avionic components associated with the affected aircraft systems to include associated software updates.
- 8) Onboard Oxygen Generating System (OBOGS) Concentrator (-0105 to -0106) - Upgrade -0105 model OBOGS concentrator to replace parts that are no longer available due to manufacturing obsolescence, address anomalies, and address software improvements. Product improvement also replaces slide valve that is sticking.
- 9) Canopy Seal Valve - Modification to production configuration and replacement of brass solenoid and replace wiring to improve reliability, safety and cost effectiveness.
- 10) Safety System Compliance - Organic - Formally called Global Positioning System Receiver Upgrade. Safety of flight issue. Office of the Chief of Naval Operations (OPNAV) mandated incorporation of a system that will indicate the proximity of the T-6 aircraft to the ground. The Ground Proximity Warning System (GPWS) will reduce the potential of an inadvertent ground strike resulting in the possible loss of aircraft and crew.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)
<p>11) Landing Gear Control Handle Redesign - Safety modification to T-6 Landing Gear Handle to reduce the risk of gear up landings. Effort includes redesign of cams and down-lock solenoid, replacing lights with Light Emitting Diodes and changing Programmable Array Logic to improve voltage thresholds.</p> <p>12) Safe Arm Handle - Product improvement modification to the ejection seat to incorporate additional safety features to pinning the seat.</p> <p>13) Nose Landing Gear Shimmy Friction Collar - Modification to aircraft nose landing gear to mitigate excessive shimmy that has been experienced during landings and take offs.</p> <p>14) Emergency Oxygen Bottle Lanyard - Safety modification to increase volume of emergency oxygen. Class A safety board recommendation.</p> <p>FUTURE MODIFICATIONS:</p> <p>1) Avionics Hardware/Software Modifications (B) - (Organic) The hardware and software in the Avionics Upgrade Program (AUP) computer system to provide solutions to conditions that were noted as deficiencies during the T-6B follow on test and evaluation.</p> <p>2) Avionics Hardware/Software Modifications (A) - (Organic) Upgrade the hardware and software in the AUP computer system to provide for increased speed in the Data Transfer System and provide a power caret indication (AUP Integrated Avionics Computer Upgrade Program) in the cockpit for setting engine power.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)

Models of Systems Affected: T-6 A/B T-6 A/B	Modification Type: PS Safety	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement												
Modification Item 1 of 2: A Kits												
A Kits												
Recurring												
1.1.1) Canopy Fracturing Initiation System (CFIS) - Ballistic - Organic ⁽¹⁾	- / -	63 / 0.036	46 / 0.186	71 / 0.100	- / -	71 / 0.100	115 / 0.100	- / -	- / -	- / -	- / -	295 / 0.422
1.1.2) Archived ECPs - Organic	- / 16.255	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.255
Subtotal: Recurring	- / 16.255	- / 0.036	- / 0.186	- / 0.100	- / -	- / 0.100	- / 0.100	- / -	- / -	- / -	- / -	- / 16.677
Non-Recurring												
1.2.1) Non-recurring Engineering - Organic	- / 1.132	- / 0.137	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.269
Subtotal: Non-Recurring	- / 1.132	- / 0.137	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.269
Subtotal: A Kits	- / 17.387	63 / 0.173	46 / 0.186	71 / 0.100	- / -	71 / 0.100	115 / 0.100	- / -	- / -	- / -	- / -	295 / 17.946
Modification Item 2 of 2: INSTALLATION EQUIPMENT												
B Kits												
Recurring												
2.1.1) Power Control Lever (PCL) - Organic	277 / 1.857	18 / 0.062	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	295 / 1.919
2.1.2) Airframe Structural/Sub-systems - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	99 / 4.831	98 / 4.834	98 / 4.828	- / -	295 / 14.493
2.1.3) Rudder Pedal Instrumented - Organic ⁽²⁾	- / -	- / -	32 / 1.528	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 1.528
2.1.4) Auto Ignition Relay - Organic	- / -	- / -	200 / 0.229	95 / 0.100	- / -	95 / 0.100	- / -	- / -	- / -	- / -	- / -	295 / 0.329
2.1.5) Flight Management System - Organic ⁽³⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	91 / 2.000	102 / 2.680	102 / 2.680	- / -	295 / 7.360
2.1.6) Avionics Obsolescence - Organic ⁽⁴⁾	10 / 0.037	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.931	56 / 5.844	230 / 23.919	- / -	305 / 30.731
2.1.7) Bundle A & B - Organic	295 / 0.067	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	295 / 0.067
2.1.8) Onboard Oxygen Generating System - Concentrator - Organic ⁽⁵⁾	- / -	- / -	- / -	- / -	- / -	- / -	80 / 2.080	40 / 1.040	40 / 1.040	60 / 1.560	75 / 1.950	295 / 7.670
2.1.9) Onboard Oxygen Generating System - Low Pressure Switch - Organic	14 / 0.087	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.087
2.1.10) Canopy Seal Valve - Organic ⁽⁶⁾	- / -	- / -	295 / 2.149	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	295 / 2.149
2.1.11) Cockpit Improvements - Organic	197 / 0.076	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	197 / 0.076
2.1.12) Avionics Hardware/Software Modifications (B) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	252 / 1.741	252 / 1.741
2.1.13) Avionics Hardware/Software Modifications (A) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 12.488	43 / 12.488
2.1.14) Safety System Compliance - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 1.264	102 / 2.434	72 / 1.753	67 / 1.675	295 / 7.126

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)					Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)			
Models of Systems Affected: T-6 A/B T-6 A/B				Modification Type: PS Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
2.1.15) Landing Gear Control Handle Redesign - LGCH ECP 149 - Organic	152 / 0.807	115 / 0.697	44 / 0.272	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	311 / 1.776	
2.1.16) Safe Arm Handle - NonOrganic	- / -	- / -	184 / 2.208	151 / 1.995	- / -	151 / 1.995	- / -	- / -	- / -	- / -	- / -	335 / 4.203	
2.1.17) Landing Gear Shimmy Friction Collar ECP 151 - Organic ⁽⁷⁾	167 / 0.295	26 / 0.149	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	193 / 0.444	
2.1.18) Emergency Oxygen Bottle Lanyard - Organic	- / -	- / -	295 / 0.414	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	295 / 0.414	
2.1.19) Archived ECPs - Organic	- / 3.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.023	
Subtotal: Recurring	- / 6.249	- / 0.908	- / 6.800	- / 2.095	- / -	- / 2.095	- / 2.080	- / 10.066	- / 16.832	- / 34.740	- / 17.854	- / 97.624	
Non-Recurring													
2.2.1) Non-recurring Engineering - Organic ⁽⁸⁾	- / 0.748	- / -	- / 1.666	- / 1.759	- / -	- / 1.759	- / 8.140	- / 5.124	- / 2.836	- / -	- / -	- / 20.273	
Subtotal: Non-Recurring	- / 0.748	- / -	- / 1.666	- / 1.759	- / -	- / 1.759	- / 8.140	- / 5.124	- / 2.836	- / -	- / -	- / 20.273	
Subtotal: INSTALLATION EQUIPMENT	1,112 / 6.997	159 / 0.908	1,050 / 8.466	246 / 3.854	- / -	246 / 3.854	80 / 10.220	293 / 15.190	398 / 19.668	562 / 34.740	437 / 17.854	4,337 / 117.897	
Subtotal: Procurement, All Modification Items	- / 24.384	- / 1.081	- / 8.652	- / 3.954	- / -	- / 3.954	- / 10.320	- / 15.190	- / 19.668	- / 34.740	- / 17.854	- / 135.843	
Support (All Modification Items)													
3.2) DATA - Publications	- / 0.025	- / -	- / 0.100	- / 0.101	- / -	- / 0.101	- / 0.103	- / 0.105	- / 0.107	- / 0.109	- / -	- / 0.650	
3.3) Training Equipment	58 / 0.217	- / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	58 / 0.221	
3.4) Support Equipment	- / 0.047	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.047	
3.5) ILS	- / 0.011	- / -	- / 0.250	- / 0.255	- / -	- / 0.255	- / 0.259	- / 0.264	- / 0.269	- / 0.274	- / -	- / 1.582	
3.6) Other Support ⁽⁹⁾	- / 1.043	- / -	- / 1.165	- / 1.900	- / -	- / 1.900	- / 2.248	- / 2.291	- / 2.334	- / 2.345	- / -	- / 13.326	
3.7) DAWDF Realignment	- / 1.894	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.894	
Subtotal: Support	- / 3.237	- / 0.004	- / 1.515	- / 2.256	- / -	- / 2.256	- / 2.610	- / 2.660	- / 2.710	- / 2.728	- / -	- / 17.720	
Installation													
Modification Item 2 of 2: INSTALLATION EQUIPMENT	- / 0.000	- / -	- / -	- / 2.210	- / -	- / 2.210	- / 1.709	- / 1.015	- / 2.006	- / 2.187	- / 1.411	- / 10.538	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 2.210	- / -	- / 2.210	- / 1.709	- / 1.015	- / 2.006	- / 2.187	- / 1.411	- / 10.538	
Total													
Total Cost (Procurement + Support + Installation)	27.621	1.085	10.167	8.420	-	8.420	14.639	18.865	24.384	39.655	19.265	164.101	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)

Modification Item 1 of 2: A Kits

Installation Information

Method of Implementation (Organic): Canopy Fracturing Initiation System (CFIS) - Ballistic **Installation Quantity:** 295

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)

Modification Item 2 of 2: INSTALLATION EQUIPMENT

Manufacturer Information

Manufacturer Name: Beechcraft Defense Corp - Safety Systems Compliance Manufacturer Location: Wichita, Kansas

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Nov 2018	Nov 2019	Nov 2020
Delivery Dates					Feb 2019	Feb 2020	Feb 2021

Manufacturer Name: Beechcraft Defense Corp - Safe Arm Handle Manufacturer Location: Wichita, Kansas

Administrative Leadtime (in Months): 6 Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016	Mar 2017				
Delivery Dates		Mar 2017	Mar 2018				

Installation Information

Method of Implementation: Contractor Field Modification:: Installation Name: Safety System Compliance

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 1.015	12 / 0.270	- / -	- / -	54 / 1.285
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	77 / 1.736	25 / 0.564	- / -	102 / 2.300
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 1.623	- / -	72 / 1.623
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 1.411	67 / 1.411
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 1.015	89 / 2.006	97 / 2.187	67 / 1.411	295 / 6.619

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	14	14	12	26	26	25	25	24	24	24	67	295
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	14	14	12	26	26	25	25	24	24	24	67	295

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)

Modification Item 2 of 2: INSTALLATION EQUIPMENT

Installation Information

Method of Implementation: Contractor Field Modification:: Installation Name: Safe Arm Handle

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	184 / 2.210	- / -	184 / 2.210	- / -	- / -	- / -	- / -	- / -	184 / 2.210
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	151 / 1.709	- / -	- / -	- / -	- / -	151 / 1.709
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	184 / 2.210	- / -	184 / 2.210	151 / 1.709	- / -	- / -	- / -	- / -	335 / 3.919

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	40	72	72	-	50	50	51	-	-	-	-	-	-	-	-	-	-	-	-	-	335
Out	-	-	-	-	-	-	-	-	-	40	72	72	-	50	50	51	-	-	-	-	-	-	-	-	-	-	-	-	-	335

Method of Implementation (Organic): Power Control Lever (PCL)	Installation Quantity: 295
Method of Implementation (Organic): Airframe Structural/Sub-systems	Installation Quantity: 295
Method of Implementation (Organic): Rudder Pedal Instrumented	Installation Quantity: 32
Method of Implementation (Organic): Auto Ignition Relay	Installation Quantity: 295
Method of Implementation (Organic): Flight Management System	Installation Quantity: 295
Method of Implementation (Organic): Avionics Obsolescence	Installation Quantity: 305

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
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Modification Item 2 of 2: INSTALLATION EQUIPMENT

Installation Information

Method of Implementation (Organic): Bundle A & B	Installation Quantity: 295
Method of Implementation (Organic): Onboard Oxygen Generating System - Concentrator	Installation Quantity: 295
Method of Implementation (Organic): Onboard Oxygen Generating System - Low Pressure Switch	Installation Quantity: 14
Method of Implementation (Organic): Canopy Seal Valve	Installation Quantity: 295
Method of Implementation (Organic): Cockpit Improvements	Installation Quantity: 197
Method of Implementation (Organic): Avionics Hardware/Software Modifications (B)	Installation Quantity: 252
Method of Implementation (Organic): Avionics Hardware/Software Modifications (A)	Installation Quantity: 43
Method of Implementation (Organic): Landing Gear Control Handle Redesign - LGCH ECP 149	Installation Quantity: 311
Method of Implementation (Organic): Landing Gear Shimmy Friction Collar ECP 151	Installation Quantity: 193
Method of Implementation (Organic): Emergency Oxygen Bottle Lanyard	Installation Quantity: 295

Footnotes:

- (1) Unit price difference due to quantity price breaks achieved in FY 2015.
- (2) Effort added to address Airframe Sub-system safety deficiency. 32 aircraft will be modified with instrumented rudder pedals to collect data on amount of force exerted on rudder pedals during in-flight rudder binding events.
- (3) New requirement based on emergent safety and sustainability requirements.
- (4) Installations shifted to FY2019. Modifications to the avionics will be required to upgrade the electronic flight instrument displays, Altitude and Heading Reference (AHRS) controller, and backup flight instruments and those avionic components associated with the affected aircraft systems to include associated software updates.
- (5) Fiscal Years 2016-2019 B Kits are required as per the maintenance schedule and contractual requirement; unit cost and quantity fluctuations are due to projected cost estimates for these requirements.
- (6) All canopy seal valves will be procured in FY 2016 to be installed in the field. Cost increase due to refined cost estimates.
- (7) Amounts reflect contract negotiated prices and include contractor overhead rate driven increases.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 1 / P3a JPATS CORRECTION OF DEFICIENCIES (OSIP 011-04)

⁽⁸⁾ Increase in FY 2017 includes ECP generation for Onboard Oxygen Generating System. FY 2018 include ECP generation for Flight Management System and Safety System compliance which will require more robust non-recurring engineering.

⁽⁹⁾ FY 2016 Other Support reduced as a result of enacted 2016 Consolidated Appropriations Act. Increase in FY 2017 is result of increase in modification efforts as production line has ended

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)				Modification Number / Title: 2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	2.370	8.981	-	8.981	23.715	33.438	14.488	-	-	82.992
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	2.370	8.981	-	8.981	23.715	33.438	14.488	-	-	82.992
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	2.370	8.981	-	8.981	23.715	33.438	14.488	-	-	82.992
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the Joint Primary Aircraft Training System (JPATS). JPATS is a joint United States Navy (USN)/United States Air Force Acquisition Program designed to replace the aging primary aircraft (T-34/T-37) fleet. Principal JPATS mission is primary training for entry-level Navy/Air Force student pilots, associated instructor pilots, and primary/intermediate training for USN Naval Flight Officers. JPATS includes the T-6 Texan II which is a stepped tandem seat, commercially derived aircraft powered by a single Pratt & Whitney PT6A-68 turboprop engine. It serves as the aircraft component of the JPATS integrated primary pilot training system which replaces the T-34C primary training aircraft.

The overall goal of the modifications budgeted in Fiscal Year 2016 and out is to be in compliance with the 28 May 2010 Federal Aviation Administration (FAA) release DoT/FAA, 14 CFR Part 91: Automated Dependent Surveillance Broadcast (ADS-B) Out performance requirements to support Air Traffic Control (ATC) service final rule. This mandate stipulates that all aircraft required to have unrestricted access to operate in Classes A, B, and C airspace, certain Class E airspace, and other specified airspace requiring ADS-B Out, must be in compliance with this regulation by January 1, 2020. Upgrading to ADS-B Out will require significant avionics system modifications to the T-6 fleet and may include replacing the existing GPS to be GPS-WAAS capable.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy											Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)							Modification Number / Title: 2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)		
Models of Systems Affected: T-6 A/B				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities					Related RDT&E PEs: 0603208N				
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)</i>													
B Kits													
Recurring													
1.1.1) Aircraft Retrofit Kits (T-6B) - NonOrganic ⁽¹⁰⁾	- / -	- / -	- / -	30 / 3.050	- / -	30 / 3.050	50 / 5.184	95 / 10.047	77 / 8.306	- / -	- / -	252 / 26.587	
1.1.2) Aircraft Retrofit kits (T-6A) - NonOrganic ⁽¹¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	14 / 2.829	29 / 5.977	- / -	- / -	- / -	43 / 8.806	
1.1.3) GBTS B Kits - NonOrganic ⁽¹²⁾	- / -	- / -	- / -	- / -	- / -	- / -	16 / 3.376	18 / 3.888	- / -	- / -	- / -	34 / 7.264	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 3.050	- / -	- / 3.050	- / 11.389	- / 19.912	- / 8.306	- / -	- / -	- / 42.657	
Non-Recurring													
1.2.1) Retrofit Non-Recurring Engineering - Organic ⁽¹³⁾	- / -	- / -	- / 2.370	- / 2.105	- / -	- / 2.105	- / 2.675	- / -	- / -	- / -	- / -	- / 17.150	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / 2.370	- / 2.105	- / -	- / 2.105	- / 2.675	- / -	- / -	- / -	- / -	- / 17.150	
<i>Subtotal: AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)</i>	- / -	- / -	- / 2.370	30 / 5.155	- / -	30 / 5.155	80 / 14.064	142 / 19.912	77 / 8.306	- / -	- / -	329 / 49.807	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 2.370	- / 5.155	- / -	- / 5.155	- / 14.064	- / 19.912	- / 8.306	- / -	- / -	- / 49.807	
Support (All Modification Items)													
2.2) DATA - Publications ⁽¹⁴⁾	- / -	- / -	- / -	- / 0.300	- / -	- / 0.300	- / 0.600	- / 0.300	- / -	- / -	- / -	- / 1.200	
2.3) Support Equipment ⁽¹⁵⁾	- / -	- / -	- / -	- / 0.388	- / -	- / 0.388	- / -	- / -	- / -	- / -	- / -	- / 0.388	
2.5) ILS ⁽¹⁶⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.250	- / 0.255	- / -	- / -	- / -	- / 0.505	
2.6) Other Support ⁽¹⁷⁾	- / -	- / -	- / -	- / 0.988	- / -	- / 0.988	- / 1.244	- / 1.262	- / 1.289	- / -	- / -	- / 4.783	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 1.676	- / -	- / 1.676	- / 2.094	- / 1.817	- / 1.289	- / -	- / -	- / 6.876	
Installation													
<i>Modification Item 1 of 1: AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)</i>	- / 0.000	- / -	- / -	- / 2.150	- / -	- / 2.150	- / 7.557	- / 11.709	- / 4.893	- / -	- / -	- / 26.309	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 2.150	- / -	- / 2.150	- / 7.557	- / 11.709	- / 4.893	- / -	- / -	- / 26.309	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	2.370	8.981	-	8.981	23.715	33.438	14.488	-	-	82.992	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)

Modification Item 1 of 1: AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)

Manufacturer Information

Manufacturer Name: Beechcraft Defense Corp - Aircraft Retrofit Kits - T-6B Manufacturer Location: Wichita, Kansas

Administrative Leadtime (in Months): 5 Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Feb 2017	Oct 2017	Oct 2018	Oct 2019	
Delivery Dates			May 2017	Oct 2017	Oct 2018	Oct 2019	

Manufacturer Name: Beechcraft Defense Corp - Aircraft Retrofit Kits - T-6A Manufacturer Location: Wichita, Kansas

Administrative Leadtime (in Months): 5 Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Feb 2018	Oct 2018		
Delivery Dates				May 2018	Dec 2018		

Manufacturer Name: Beechcraft Defense Corp - GBTS Kits Manufacturer Location: Wichita, Kansas

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 2

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Oct 2017	Oct 2018		
Delivery Dates				Dec 2017	Dec 2018		

Installation Information

Method of Implementation: [none specified]:: Installation Name: Aircraft Retrofit Kits (T-6B)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	30 / 2.150	- / -	30 / 2.150	- / -	- / -	- / -	- / -	- / -	30 / 2.150
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	50 / 2.911	- / -	- / -	- / -	- / -	50 / 2.911
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	95 / 5.474	- / -	- / -	- / -	95 / 5.474
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	77 / 4.893	- / -	- / -	77 / 4.893
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	30 / 2.150	- / -	30 / 2.150	50 / 2.911	95 / 5.474	77 / 4.893	- / -	- / -	252 / 15.428

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)

Modification Item 1 of 1: AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Aircraft Retrofit Kits (T-6B)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	-	-	-	12	18	14	12	12	12	25	24	23	23	40	37	-	-	-	-	-	-	-	-	-	252
Out	-	-	-	-	-	-	-	-	-	-	-	12	18	14	12	12	12	25	24	23	23	40	37	-	-	-	-	-	-	-	-	-	252

Method of Implementation: [none specified]:: Installation Name: Aircraft Retrofit kits (T-6A)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.414	- / -	- / -	- / -	- / -	14 / 1.414
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 2.987	- / -	- / -	- / -	29 / 2.987
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.414	29 / 2.987	- / -	- / -	- / -	43 / 4.401

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	8	7	7	-	-	-	-	-	-	-	-	-	-	-	43
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	8	7	7	-	-	-	-	-	-	-	-	-	-	43

Method of Implementation: [none specified]:: Installation Name: GBTS B Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 2 / AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)

Modification Item 1 of 1: AVIONICS UPGRADES FAA COMPLIANCE (OSIP 007-16)

Installation Information

Method of Implementation: [none specified]:: Installation Name: GBTS B Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	16 / 3.232	- / -	- / -	- / -	- / -	16 / 3.232
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 3.248	- / -	- / -	- / -	18 / 3.248
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	16 / 3.232	18 / 3.248	- / -	- / -	- / -	34 / 6.480

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	6	4	4	-	-	-	-	-	-	-	-	-	34
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	6	4	4	-	-	-	-	-	-	-	-	34

Footnotes:

- (10) Kits delayed to FY2017 due to ongoing R&D efforts for T-6B kits. Total product cost reflects updated cost estimates. Kits broken out between T-6A and T-6B due to differing installation complexity and schedules.
- (11) Added line to separate installation kits for T-6A which have different costs and level of effort associated with installation.
- (12) Ground Based Trainer System (GBTS) for T-6B moved from FY 2016 to FY 2018 to better align with T-6A & T-6B kit schedules.
- (13) FY 2016 NRE will support T-6B engineering efforts. FY 2017 NRE will support GBTS engineering efforts. FY 2018 NRE will support T-6A engineering efforts. FY 2017 NRE reduced by \$296K to support funding higher Navy priorities.
- (14) Costs added to reflect requirements for T-6A, T-6B, and GBTS data/publications.
- (15) Support equipment costs shifted into single fiscal year (FY 2017).
- (16) Added costs for ILS associated with fielding Automatic Dependent Surveillance Broadcast (ADS-B) out modifications.
- (17) Increase in FY2017 other support costs due to increased labor required to support Automatic Dependent Surveillance-Broadcast (ADS-B) installation by FY2020 FAA deadline.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0576 / Common ECM Equipment
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 000	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,796.989	184.664	194.906	143.773	98.240	242.013	146.451	166.504	149.691	152.694	1,261.348	4,295.260
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,796.989	184.664	194.906	143.773	98.240	242.013	146.451	166.504	149.691	152.694	1,261.348	4,295.260
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,796.989	184.664	194.906	143.773	98.240	242.013	146.451	166.504	149.691	152.694	1,261.348	4,295.260

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in COMMON ECM EQUIPMENT by \$2.75M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

This line item funds common Electronic Countermeasures (ECM) equipment for strike and assault aircraft. The overall goal of the modification budget is to provide a reprogrammable radar and missile warning system, provide attacking missile declaration, sector direction finding, laser detection, and self-protection capability devices to applicable user aircraft.

14-90 AN/APR-39(V) 2: The AN/APR-39A/B/C/D (V) 2 Radar Signal Detecting Set is designed for US Marine Corps, US Navy, US Air Force, and US Army Assault Support aircraft to provide onboard situational awareness and warning of radar threats. FY 2012 funds were used to start the Class I ECP Non-Recurring Engineering (NRE) efforts for the correction of deficiencies of the RWR system. NRE, integration, validation/ verification and procurement of the upgraded APR-39 system (APR-39D (V)2) will continue through FY 2021. FY 2016 OCO funds support the procurement of 28 APR-39D(V)2s for MV-22 and 16 APR-39D(V)2s for H-1 aircraft.

06-00 ALE-39 to 47 Retrofit: This OSIP provides funding for retrofit installation of AN/ALE-47 on F/A-18/C/D aircraft lots 12-17 and to procure new AN/ALE-47 Test Sets (ALM-290) to replace original version ALM-286s. The replacement of the AN/ALE-39 Dispenser system with the AN/ALE-47 will correct serious safety problems and greatly improve aircraft survivability.

05-08 DIRCM: This Operational Safety Improvements Program (OSIP) provides current available technology improvements for survivability to United States Marine Corps aircraft. OCO funding was used to procure A-Kits and B-kits, along with program support. The OCO funds in FY 2014, FY 2015, FY 2016 and FY 2017 support procurement, upgrade, and testing and fielding of the Department of Navy Large Aircraft Infrared Countermeasure (DoN LAIRCM)/Advanced Threat Warning (ATW) capability. This budget supports procurement, Engineering Change Proposals (ECPs), integration, validation, Follow on Test and Evaluation (FOT&E) and fielding of DoN LAIRCM systems on CH-53E/K, KC-130J, P-8A and MV-22 platforms.

04-12 Common On-Board Jammer: Integrated Defensive Electronic Counter Measure (IDECM) Block 4 is an ECP to the ALQ-214 intended to render it suitable for operation on the F/A-18C/D aircraft, while retaining all IDECM suite functionality when installed on F/A-18E/F aircraft. The Electronic Frequency Converter (EFC) enables dataflow via the fiber optic cable to the Fiber Optic Towed Decoy (FOTD) and is part of the IB-4 configuration when installed on the F/A-18E/F aircraft. This OSIP is for the onboard portion of the IB-4 configuration.

17-12 Correction of Discrepancies: This OSIP will provide the required correction to multiple sub components that are obsolete.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0576 / Common ECM Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000	Item MDAP/MAIS Code(s): N/A	
<p>04-15 Assault Correction of Discrepancies: Assault of Corrections of Discrepancies OSIP will affect changes to assault Electronic Countermeasure (ECM) equipment in the aircraft that have been delivered for fleet operations. These ECM systems require various upgrade initiatives and logistic support to keep these aircraft mission capable with a robust defensive system that ensure aircraft survivability.</p> <p>18-17 Assault Direct Infrared Counter Measures (ADIRCM): This OSIP provides funding for the installation of Assault DIRCM on the USN/USMC chosen material solution for AH-1Z, UH-1Y, and MH-60S aircraft in response to Joint Urgent Operational Needs Statement (SO-0010).</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0576 / Common ECM Equipment

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 000 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/APR-39D(V)2 RWR (OSIP 014-90) (MISSION CAPABILITY)			- / 278.674	- / 18.155	- / 60.279	- / 19.763	- / -	- / 19.763
P-3a	2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00) (MISSION CAPABILITY)			- / 174.533	- / 6.132	- / 5.306	- / 3.263	- / -	- / 3.263
P-3a	3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM /AAQ-24 (OSIP 005-08) (MISSION CAPABILITY)			- / 440.692	- / 65.004	- / 34.045	- / 61.845	- / 70.780	- / 132.625
P-3a	4 / COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12) (MISSION CAPABILITY)			- / 165.113	- / 94.311	- / 94.095	- / 57.568	- / -	- / 57.568
P-3a	5 / CORRECTIONS OF DISCREPANCIES (OSIP 017-12) (SAFETY/ RELIABILITY)			- / 1.023	- / 0.330	- / 0.463	- / 0.442	- / -	- / 0.442
P-3a	6 / ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15) (SAFETY/RELIABILITY)			- / 0.000	- / 0.732	- / 0.718	- / 0.892	- / -	- / 0.892
P-3a	7 / ASSAULT DIRCM (OSIP 018-17) (TBD)			- / 0.000	- / -	- / -	- / -	- / 27.460	- / 27.460
P-3a	8 / INACTIVE OSIPs (TBD)			- / 736.954	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 1,796.989	- / 184.664	- / 194.906	- / 143.773	- / 98.240	- / 242.013

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/APR-39D(V)2 RWR (OSIP 014-90) (MISSION CAPABILITY)			- / 39.018	- / 38.361	- / 33.976	- / 34.679	- / 325.763	- / 848.668
P-3a	2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00) (MISSION CAPABILITY)			- / 3.052	- / 5.500	- / -	- / -	- / 5.333	- / 203.119
P-3a	3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM /AAQ-24 (OSIP 005-08) (MISSION CAPABILITY)			- / 53.633	- / 74.829	- / 67.993	- / 69.335	- / 601.590	- / 1,539.746
P-3a	4 / COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12) (MISSION CAPABILITY)			- / 49.911	- / 46.873	- / 47.722	- / 48.680	- / 328.662	- / 932.935
P-3a	5 / CORRECTIONS OF DISCREPANCIES (OSIP 017-12) (SAFETY/ RELIABILITY)			- / -	- / -	- / -	- / -	- / -	- / 2.258
P-3a	6 / ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15) (SAFETY/RELIABILITY)			- / 0.837	- / 0.941	- / -	- / -	- / -	- / 4.120
P-3a	7 / ASSAULT DIRCM (OSIP 018-17) (TBD)			- / -	- / -	- / -	- / -	- / -	- / 27.460
P-3a	8 / INACTIVE OSIPs (TBD)			- / -	- / -	- / -	- / -	- / -	- / 736.954
P-40	Total Gross/Weapon System Cost			- / 146.451	- / 166.504	- / 149.691	- / 152.694	- / 1,261.348	- / 4,295.260

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
Program provides for common electronic countermeasures equipment for strike and assault aircraft.

OCO:

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0576 / Common ECM Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000	Item MDAP/MAIS Code(s): N/A	
FY 2017 OCO funds for the DoN LAIRCM and Assault Direct Infrared Counter Measures (ADIRCM) programs provide increased survivability against surface to air IR missiles, laser guided threats, small arms, anti-aircraft artillery (AAA), machine guns and rocket propelled grenades for combat, assault rotary wing and fixed wing aircraft in theater.		

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment				Modification Number / Title: 1 / AN/APR-39D(V)2 RWR (OSIP 014-90)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	278.674	18.155	60.279	19.763	-	19.763	39.018	38.361	33.976	34.679	325.763	848.668
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	278.674	18.155	60.279	19.763	-	19.763	39.018	38.361	33.976	34.679	325.763	848.668
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	278.674	18.155	60.279	19.763	-	19.763	39.018	38.361	33.976	34.679	325.763	848.668
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION / JUSTIFICATION: The AN/APR-39A/B/C/D (V) 2 Radar Signal Detecting Set is designed for US Marine Corps, US Navy, US Air Force, and US Army Assault Support aircraft to provide onboard situational awareness and warning of radar threats by Statement of Operational Requirements Document (ORD) number 545-88-00 dated 14 February 2000. The AN/APR-39A/B/C/D(V)2 also provides control and display of the AAR-47 Missile Warning System and Chaff dispense commands to the ALE-47 Counter Measure Dispensing System. The AN/APR-39C/D (V) 2 provides control and display of the AAQ-24 and AAR-59. The APR-39A/B/C/D (V) 2 consists of five antennas, one Cockpit Control unit, a display, two, three, or four receivers, and one processor. This OSIP supports a Class I ECP, APR-39D (V) 2, that corrects part I major deficiencies against the Radar Warning Receiver (RWR) noted in AH-1W, MV-22 and KC-130T Operational Evaluation (OpEval) reports. The current RWR provides inaccurate direction of arrival information, time delayed detection and identification of threat emitters causing loss of situational awareness to combat aircrews. The APR-39D (V) 2 system will be the RWR solution for all assault support aircraft (MV-22, AH-1, H-60, UH-1, H-53, and C-130). FY 2016 Overseas Contingency Operations (OCO) funds will support the procurement of 28 APR-39D(V)2s for MV-22 AND 16 APR-39D(V)2s for H-1 aircraft. C(V)2 and D(V)2 flight tests required for MV-22, KC-130T and H-1 aircraft. C(V)2 and D(V)2 Systems Software upgrades required throughout the FYDP for various platforms.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The AN/APR-39A/B (V) 2 is in the Aircraft Procurement, Navy (APN)-1 Post Production and sustainment phase (MSIII3Q/96). The Department of Navy is the lead service of this joint service program. FY 2012 funds were used to start the Class I ECP Non-Recurring Engineering (NRE) efforts for the correction of deficiencies of the RWR system. NRE, integration, validation/ verification and procurement of the upgraded APR-39 system (APR-39D (V)2) will continue through FY 2021.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 1 / AN/APR-39D(V)2 RWR (OSIP 014-90)

Models of Systems Affected: UH-1Y, AH-1Z, MV-22, KC-130T, CH-53E/K, KC-130J, MH-53, HH-60H, MH-60S	Modification Type: MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: AN/APR-39D(V)2 RWR (OSIP 014-90)												
B Kits												
Recurring												
2.1.1) Install Equip AN/APR-39A/C/D(V)2- MV-22 - Organic ⁽¹⁾	16 / 11.157	1 / 1.361	- / -	2 / 1.729	- / -	2 / 1.729	20 / 15.733	21 / 17.330	20 / 14.960	20 / 14.960	232 / 219.742	332 / 296.972
2.1.2) OCO Install Equip AN/APR-39A/C/D(V)2 - MV-22 - Organic	- / -	- / -	28 / 23.240	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 23.240
2.1.3) Install Equip AN/APR-39 D(V)2-AH-1Z - Organic	- / -	- / -	- / -	3 / 2.327	- / -	3 / 2.327	16 / 12.408	16 / 11.856	16 / 11.177	16 / 11.866	106 / 99.997	173 / 149.631
2.1.4) OCO Install Equip AN/APR-39D(V)2 - AH - 1Z - Organic	- / -	- / -	16 / 13.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 13.280
2.1.5) Archived BKits Recurring - Organic - Organic	764 / 123.104	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	764 / 123.104
Subtotal: Recurring	- / 134.261	- / 1.361	- / 36.520	- / 4.056	- / -	- / 4.056	- / 28.141	- / 29.186	- / 26.137	- / 26.826	- / 319.739	- / 606.227
Non-Recurring												
2.2.1) D(V)2 System Flight Test - Organic ⁽²⁾	- / -	- / 0.947	- / 1.400	- / 0.345	- / -	- / 0.345	- / 0.322	- / 0.322	- / -	- / -	- / 0.379	- / 3.715
2.2.2) C(V)2 System Flight Test - Organic ⁽³⁾	- / -	- / -	- / -	- / 0.326	- / -	- / 0.326	- / -	- / -	- / -	- / -	- / 1.055	- / 1.381
2.2.3) Archived BKits Non-Recurring - Organic	- / 16.945	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.945
Subtotal: Non-Recurring	- / 16.945	- / 0.947	- / 1.400	- / 0.671	- / -	- / 0.671	- / 0.322	- / 0.322	- / -	- / -	- / 1.434	- / 22.041
Subtotal: AN/APR-39D(V)2 RWR (OSIP 014-90)	780 / 151.206	1 / 2.308	44 / 37.920	5 / 4.727	- / -	5 / 4.727	36 / 28.463	37 / 29.508	36 / 26.137	36 / 26.826	338 / 321.173	1,313 / 628.268
Subtotal: Procurement, All Modification Items	- / 151.206	- / 2.308	- / 37.920	- / 4.727	- / -	- / 4.727	- / 28.463	- / 29.508	- / 26.137	- / 26.826	- / 321.173	- / 628.268

Support (All Modification Items)

3.1) ECO	- / 20.852	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.852
3.2) OCO ECO	- / 3.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.834
3.3) OCO B(V)X Computer Processor ECP	- / 1.870	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.870
3.4) D(V)2 System ECP	- / 139.611	- / 8.734	- / 15.945	- / 16.448	- / -	- / 16.448	- / 4.810	- / 3.182	- / 2.438	- / 2.449	- / -	- / 173.617
3.5) C(V)2 System SW	- / -	- / 1.084	- / 12.101	- / 12.965	- / -	- / 12.965	- / 10.405	- / 0.406	- / 0.327	- / 0.328	- / -	- / 17.616
3.6) D(V)2 System SW	- / -	- / 12.781	- / 11.368	- / 13.052	- / -	- / 13.052	- / 3.087	- / 3.065	- / 2.970	- / 2.973	- / -	- / 19.296
3.7) Data	- / 1.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.024
3.8) Training Equipment	- / 0.960	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.960
3.9) Support Equipment	- / 2.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.082

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 1 / AN/APR-39D(V)2 RWR (OSIP 014-90)

Models of Systems Affected: UH-1Y, AH-1Z, MV-22, KC-130T, CH-53E/K, KC-130J, MH-53, HH-60H, MH-60S	Modification Type: MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.10) OCO Support Equipment	- / 1.073	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.073
3.11) ILS	- / 6.309	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.309
3.12) OCO ILS	- / 0.351	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.351
3.13) OCO Other Support	- / 6.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.122
3.14) Other Support ⁽⁴⁾	- / 143.380	- / 3.248	- / 0.945	- / 12.571	- / -	- / 12.571	- / 12.253	- / 12.200	- / 12.104	- / 12.103	- / 4.590	- / 63.394
3.15) MV-22 Integration Support	- / -	- / -	- / 6.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.000
3.16) AH-1 Integration Support	- / -	- / -	- / 6.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.000
Subtotal: Support	- / 127.468	- / 15.847	- / 22.359	- / 15.036	- / -	- / 15.036	- / 10.555	- / 8.853	- / 7.839	- / 7.853	- / 4.590	- / 220.400
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	278.674	18.155	60.279	19.763	-	19.763	39.018	38.361	33.976	34.679	325.763	848.668

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 1 / AN/APR-39D(V)2 RWR (OSIP 014-90)

Modification Item 1 of 1: AN/APR-39D(V)2 RWR (OSIP 014-90)

Installation Information

Method of Implementation (Organic): Install Equip AN/APR-39A/C/D(V)2- MV-22 - Not Installed	Installation Quantity: 332
Method of Implementation (Organic): OCO Install Equip AN/APR-39A/C/D(V)2 - MV-22 - Not Installed	Installation Quantity: 28
Method of Implementation (Organic): Install Equip AN/APR-39 D(V)2-AH-1Z - Not Installed	Installation Quantity: 173
Method of Implementation (Organic): OCO Install Equip AN/APR-39D(V)2 - AH - 1Z - Not Installed	Installation Quantity: 16
Method of Implementation (Organic): Archived BKits Recurring - Organic - Not Installed	Installation Quantity: 764

Footnotes:

- (1) MV-22 UUNS and Joint Urgent Operational Need Statement (JUONS) requirements have caused delays to program execution, limited the availability of aircraft required for APR-39 testing. Program realigned in FY17 to recover and preserve FY18 and out schedule. FY2017 thru FY2021 quantity decreased due to program delays resulting from Congressional actions, test aircraft availability and to support "Buy to Budget" requirements.
- (2) FY 2017 and FY 2018 non-recurring efforts is required for each platform after each integration.
- (3) FY 2017 and FY 2018 non-recurring efforts is required for each platform after each integration.
- (4) FY2016 Other Support decreased to reflect Congressional action due to carryover. FY17 and out Other Support funding realigned to recover required resources for updated program execution.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment				Modification Number / Title: 2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	174.533	6.132	5.306	3.263	-	3.263	3.052	5.500	-	-	5.333	203.119
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	174.533	6.132	5.306	3.263	-	3.263	3.052	5.500	-	-	5.333	203.119
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	174.533	6.132	5.306	3.263	-	3.263	3.052	5.500	-	-	5.333	203.119
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The replacement of the AN/ALE-39 Dispenser System with the AN/ALE-47 will correct serious safety problems and greatly improve aircraft survivability. As a joint program, Under Secretary of Defense (Acquisition Technology & Logistics) memo of November 1986 directed US Navy and US Army to participate in the US Air Force (USAF) Engineering Manufacturing Development (EMD) phase. Requirements were established by USAF Statement of Operational Requirements Document (ORD) number 341.88-II-D, dated 8 July 1992. Operational, Safety and Improvement Program (OSIP) 006-00 was established for the retrofit of CH-53E, EA-6B, AH-1W, CH-46E, UH-1N, MH-53E, F/A-18C/D, AV-8B, MV-22, KC-130F/R/T, H-60, P-3, SH-60B Type/Model/Series (T/M/S).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The AN/ALE-47 system is in production and being installed in multiple US Navy, US Marine Corp and USAF aircraft. Milestone III decision awarded March 1993. Stand-alone modification procedures for F/A-18 were approved in 2014 and will allow for increased installations based on aircraft availability. This OSIP provides funding for retrofit installation of AN/ALE-47 on F/A-18/C/D aircraft lots 12-17 and to procure new AN/ALE-47 Test Sets (ALM-290) to replace original version ALM-286s. An interim contract for component procurements during the qualification phase of the follow-on contract is planned for award October 2015.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)

Models of Systems Affected: CH-53E, EA-6B, AH-1W, CH-46E, UH-1N, MH-53E, F/A-18C/D, AV-8B, MV-22, KC-130F/R/T, H-60, P-3, SH-60B	Modification Type: MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)												
A Kits												
Recurring												
1.1.1) Archived AKits/Recurring - Organic	2,539 / 20.679	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,539 / 20.679
1.1.2) F/A-18 A-Kit - NonOrganic ⁽⁵⁾	141 / 5.937	26 / 1.761	34 / 1.766	25 / 1.213	- / -	25 / 1.213	25 / 1.148	25 / 1.350	- / -	- / -	24 / 1.296	300 / 14.471
Subtotal: Recurring	- / 26.616	- / 1.761	- / 1.766	- / 1.213	- / -	- / 1.213	- / 1.148	- / 1.350	- / -	- / -	- / 1.296	- / 35.150
Non-Recurring												
1.2.1) Archived AKits/Non-Recurring - Organic	22 / 6.458	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 6.458
Subtotal: Non-Recurring	- / 6.458	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.458
B Kits												
Recurring												
2.1.1) Archived BKits/Recurring - Organic	6,120 / 74.298	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6,120 / 74.298
2.1.2) F/A-18 B Kits - Organic ⁽⁶⁾	141 / 4.712	26 / 1.679	34 / 0.975	25 / 0.400	- / -	25 / 0.400	25 / 0.400	25 / 1.200	- / -	- / -	24 / 1.152	300 / 10.518
Subtotal: Recurring	- / 79.010	- / 1.679	- / 0.975	- / 0.400	- / -	- / 0.400	- / 0.400	- / 1.200	- / -	- / -	- / 1.152	- / 84.816
Subtotal: ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)	8,963 / 112.084	52 / 3.440	68 / 2.741	50 / 1.613	- / -	50 / 1.613	50 / 1.548	50 / 2.550	- / -	- / -	48 / 2.448	9,281 / 126.424
Subtotal: Procurement, All Modification Items	- / 112.084	- / 3.440	- / 2.741	- / 1.613	- / -	- / 1.613	- / 1.548	- / 2.550	- / -	- / -	- / 2.448	- / 126.424

Support (All Modification Items)

3.1) Equip ECO	- / 0.783	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.783
3.2) Data	- / 0.056	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.056
3.3) Training Equip	- / 3.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.185
3.4) Support Equip	- / 3.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.236
3.5) OCO Support Equipment	- / 0.857	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.857
3.6) F/A-18 ALM-290 Test Sets ⁽⁷⁾	- / 1.559	- / 0.289	- / 0.300	- / 0.362	- / -	- / 0.362	- / 0.301	- / 0.433	- / -	- / -	- / 0.425	- / 3.669
3.7) FY05 Supp	- / 1.156	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.156
3.8) Title 9 Supplemental	- / 1.333	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.333
3.9) ILS	- / 1.333	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.333
3.10) OCO ILS CH-53D/E	- / 1.862	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.862
3.11) OCO Other Support	- / 8.856	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.856

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)

Models of Systems Affected: CH-53E, EA-6B, AH-1W, CH-46E, UH-1N, MH-53E, F/A-18C/D, AV-8B, MV-22, KC-130F/R/T, H-60, P-3, SH-60B	Modification Type: MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.12) Other Support ⁽⁶⁾	- / 29.229	- / 0.382	- / 0.506	- / 0.168	- / -	- / 0.168	- / 0.283	- / 0.267	- / -	- / -	- / 0.300	- / 31.135
<i>Subtotal: Support</i>	- / 53.445	- / 0.671	- / 0.806	- / 0.530	- / -	- / 0.530	- / 0.584	- / 0.700	- / -	- / -	- / 0.725	- / 57.461
Installation												
Modification Item 1 of 1: ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)	- / 9.004	- / 2.021	- / 1.759	- / 1.120	- / -	- / 1.120	- / 0.920	- / 2.250	- / -	- / -	- / 2.160	- / 19.234
<i>Subtotal: Installation</i>	- / 9.004	- / 2.021	- / 1.759	- / 1.120	- / -	- / 1.120	- / 0.920	- / 2.250	- / -	- / -	- / 2.160	- / 19.234
Total												
Total Cost (Procurement + Support + Installation)	174.533	6.132	5.306	3.263	-	3.263	3.052	5.500	-	-	5.333	203.119

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)

Modification Item 1 of 1: ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)

Manufacturer Information

Manufacturer Name: NAWC, Weapon Center	Manufacturer Location: China Lake, CA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 4

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018		
Delivery Dates	Feb 2015	Feb 2016	Feb 2017	Feb 2018	Feb 2019		

Installation Information

Method of Implementation: Depot Level Installation:: Installation Name: F/A-18C Installation Costs

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	132 / 9.004	9 / 0.777	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	141 / 9.781
FY 2015	- / -	26 / 1.244	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 1.244
FY 2016	- / -	- / -	34 / 1.759	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 1.759
FY 2017	- / -	- / -	- / -	25 / 1.120	- / -	25 / 1.120	- / -	- / -	- / -	- / -	- / -	25 / 1.120
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.920	- / -	- / -	- / -	- / -	25 / 0.920
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 2.250	- / -	- / -	- / -	25 / 2.250
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.160	24 / 2.160
Total	132 / 9.004	35 / 2.021	34 / 1.759	25 / 1.120	- / -	25 / 1.120	25 / 0.920	25 / 2.250	- / -	- / -	24 / 2.160	300 / 19.234

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	132	3	10	10	12	-	10	10	14	-	8	9	8	-	8	9	8	-	8	9	8	-	-	-	-	-	-	-	-	24	300
Out	126	6	3	10	10	12	-	10	10	14	-	8	9	8	-	8	9	8	-	8	9	8	-	-	-	-	-	-	-	24	300

Method of Implementation (Organic): Archived AKits/Recurring - Not Installed **Installation Quantity:** 2539

Method of Implementation (Organic): Archived AKits/Non-Recurring - Not Installed **Installation Quantity:** 22

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)
Modification Item 1 of 1: ALE-39 TO ALE-47 RETROFIT (OSIP 006-00)		
Installation Information		
Method of Implementation (Organic): Archived BKits/Recurring - Not Installed		Installation Quantity: 6120
Method of Implementation (Organic): F/A-18 B Kits		Installation Quantity: 300
<p>Footnotes:</p> <p>(5) During FY 2017-FY 2019 A-kits are being procured for F/A-18C 2-dispenser, F/A-18D 2-dispenser, and F/A-18D 4-dispenser configurations. The A-kit components and unit costs will vary, depending on which type, model, series (TMS) will receive the modification. Commander, Naval Air Forces (CNAL/CNAP) is continuing extension of flight hours and service life on the F/A-18s, possibly to FY 2031, to fill strike fighter shortfall, requiring (49) additional aircraft modifications. FY 2019 funded (25) F/A-18 A Kits, leaving a Cost To Complete quantity of (24) for the planned aircraft modifications to accommodate F/A-18 aircraft with extended service life.</p> <p>(6) The FY 2016-2018 decrease in unit costs for F/A-18 B-kits is due to use of reclaimed assets being screened/validated as Ready for Issue (RFI) status and used as Government Furnished Equipment (GFE) assets, vice new procurements. FY 2019 cost increase due to A-Kit components and unit cost will vary, depending upon which type, model, series (T/M/S) is receiving the modification. The TD for AFC-566 was approved to allow for stand-alone modifications, which will provide more flexibility to schedule aircraft for ALE-47 Retrofit induction without schedule delays of concurrent aircraft modifications. CNAL/CNAP is continuing extension of flight hours and service life on the F/A-18s, possibly to FY 2031, to fill strike fighter shortfall, requiring (49) additional aircraft modifications. FY 2019 funded (25) F/A-18 A Kits, leaving a Cost To Complete quantity of (24) for the planned aircraft modifications to accommodate F/A-18 aircraft with extended service life. Equal number of F/A-18 A & B kits are required for installation.</p> <p>(7) The increase in total costs in FY 2016 through FY 2017 and FY 2019 for the ALM-290 test sets is due to the increased labor rates for manufacturing and increased pricing for miscellaneous components that are nearing obsolescence being procured through contract.</p> <p>(8) The increase in Other Support costs in FY 2018 for Engineering and Logistics support is due to the increased labor rates for Mission Data File (MDF)fielding.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment			Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	440.692	65.004	34.045	61.845	70.780	132.625	53.633	74.829	67.993	69.335	601.590	1,539.746
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	440.692	65.004	34.045	61.845	70.780	132.625	53.633	74.829	67.993	69.335	601.590	1,539.746
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	440.692	65.004	34.045	61.845	70.780	132.625	53.633	74.829	67.993	69.335	601.590	1,539.746
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The AN/AAQ-24 Department of the Navy, Large Aircraft Infrared Countermeasures (DoN LAIRCM) System (B-kit) consists of 5 components: Missile Warning Sensor (MWS, 5 or 6); processor (1), Guardian Laser Transmitter Assembly (GLTA, 2); Controller Interface Unit (CIU, 1) and Viper Laser. The Defense Intelligence Agency (DIA) System Threat Assessment Report (STAR) and current USMC operations pose surface to air threats requiring DoN LAIRCM capabilities to maintain survivability against improved Man-Portable Air Defense Systems (MANPADS), Rocket Propelled Grenades (RPG), hostile gunfire, Anti-Aircraft Artillery (AAA), and laser-directed weapons. This budget supports procurement, Engineering Change Proposals (ECPs), integration, validation, Follow on Test and Evaluation (FOT&E), and fielding of DoN LAIRCM systems on CH-53E/K, KC-130J, P-8A and MV-22 platforms in accordance with Statement of Operational Requirement Document (ORD) number 756-88-08. Based on FY15 Joint Urgent Operational Need (JUON), SOCOM and USA programs have submitted requirements for DoN LAIRCM integration. Baseline funding will support the procurement, integration, validation, Follow on Test & Evaluation (FOT&E), and fielding through the FYDP; supplemental funds will do the same in FY 2015, FY 2016 and FY 2017.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Assistant Secretary of the Navy (ASN) approved the DoN LAIRCM program Milestone C / Full Rate Production (FRP) in Jan 2010. The Engineering Change Proposals (ECPs) provide better aircrew situational awareness and IRCM performance through improved MWS detection (Pd) and a lower False Alarm Rate (FAR); threat information to support Smart Dispensing; Hostile Fire Indication (HFI); and Laser Warning (LW). The DoN LAIRCM customer base continues to expand as performance is demonstrated. Since FRP in 2010, CH-53K, C-20, C-40, KC-130J, and MV -22 PMOs have submitted requirements for LAIRCM. The associated program offices (i.e., PMA-207, PMA-261, PMA-275 etc.) use Aircraft Procurement, Navy (APN) 1,2,4, and 5 funding as appropriate to integrate and procure DoN LAIRCM systems. Other service platform programs have also requested DoN LAIRCM support that will require procurement, integration, validation throughout the FYDP.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)

Models of Systems Affected: CH-53E, CH-53K , MV-22, P-8A, KC-130J	Modification Type: MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM /AAQ-24 (OSIP 005-08)												
B Kits												
Recurring												
2.1.1) Archived B Kits Recurring - Organic	23 / 1.698	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 1.698
2.1.2) DIRCM (B Kits) - Organic ⁽⁹⁾	7 / 20.252	7 / 18.550	1 / 2.750	17 / 44.999	- / -	17 / 44.999	18 / 46.476	26 / 66.430	23 / 58.650	29 / 62.456	322 / 546.464	450 / 867.027
2.1.3) OCO DIRCM (B Kits) - Organic ⁽¹⁰⁾	68 / 127.582	- / -	10 / 24.180	- / -	24 / 60.016	24 / 60.016	- / -	- / -	- / -	- / -	- / -	102 / 211.778
2.1.4) OCO ATW Retrofit Kits - Organic	61 / 62.121	32 / 31.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	93 / 93.471
2.1.5) ATW Retrofit Kits - Organic ⁽¹¹⁾	12 / 9.747	- / -	- / -	14 / 10.765	- / -	14 / 10.765	- / -	- / -	- / -	- / -	13 / 11.050	39 / 31.562
Subtotal: Recurring	- / 221.400	- / 49.900	- / 26.930	- / 55.764	- / 60.016	- / 115.780	- / 46.476	- / 66.430	- / 58.650	- / 62.456	- / 557.514	- / 1,205.536
Non-Recurring												
2.2.1) A/C Integration NRE - Organic	- / -	- / 3.361	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.361
2.2.2) OCO A/C Integration NRE - Organic ⁽¹²⁾	- / -	- / -	- / -	- / -	- / 15.773	- / 15.773	- / -	- / -	- / -	- / -	- / -	- / 15.773
2.2.3) Navy Test - Organic ⁽¹³⁾	- / 3.868	- / 6.307	- / 2.150	- / 11.313	- / -	- / 11.313	- / 2.406	- / 1.400	- / 1.566	- / 1.322	- / -	- / 20.332
2.2.4) Archived B Kits Non Recurring - Organic	- / 21.544	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.544
Subtotal: Non-Recurring	- / 25.412	- / 9.668	- / 2.150	- / 11.313	- / 15.773	- / 7.086	- / 2.406	- / 1.400	- / 1.566	- / 1.322	- / -	- / 51.010
Subtotal: DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM /AAQ-24 (OSIP 005-08)	171 / 246.812	39 / 59.568	11 / 29.080	31 / 57.077	24 / 65.789	55 / 122.866	18 / 48.882	26 / 67.830	23 / 60.216	29 / 63.778	335 / 557.514	707 / 1,256.546
Subtotal: Procurement, All Modification Items	- / 246.812	- / 59.568	- / 29.080	- / 57.077	- / 65.789	- / 122.866	- / 48.882	- / 67.830	- / 60.216	- / 63.778	- / 557.514	- / 1,256.546

Support (All Modification Items)

3.1) Engineering Change Orders	- / 4.706	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.706
3.2) OCO Engineering Change Orders	- / 60.925	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 60.925
3.3) Software Upgrade ⁽¹⁴⁾	- / -	- / -	- / -	- / 10.789	- / -	- / 10.789	- / 10.776	- / 10.787	- / 1.726	- / -	- / 1.235	- / 15.313
3.4) Data	- / 0.487	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.487
3.5) OCO Data	- / 0.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.109
3.6) Training Equipment	- / 0.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.024
3.7) Support Equipment ⁽¹⁵⁾	- / 2.591	- / 0.949	- / -	- / 0.665	- / -	- / 0.665	- / -	- / 0.532	- / 0.399	- / 1.064	- / 11.504	- / 17.704

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)

Models of Systems Affected: CH-53E, CH-53K , MV-22, P-8A, KC-130J	Modification Type: MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.8) OCO Support Equipment	- / 0.180	- / 0.412	- / -	- / -	- / 13.340	- / 13.340	- / -	- / -	- / -	- / -	- / -	- / 13.932
3.9) ILS ⁽¹⁶⁾	- / 11.413	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.374	- / 1.342	- / -	- / 14.737	- / 18.866
3.10) OCO ILS	- / 3.545	- / 0.044	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.589
3.11) Other Support ⁽¹⁷⁾	- / 38.849	- / 3.917	- / 4.965	- / 3.314	- / -	- / 3.314	- / 3.975	- / 4.306	- / 4.310	- / 4.493	- / 26.600	- / 94.729
3.12) OCO Other Support	- / 47.436	- / 0.114	- / -	- / -	- / 1.651	- / 1.651	- / -	- / -	- / -	- / -	- / -	- / 49.201
3.14) Archived BKits Recurring - Organic	- / 23.615	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.615
Subtotal: Support	- / 193.880	- / 5.436	- / 4.965	- / 4.768	- / 4.991	- / 9.759	- / 4.751	- / 6.999	- / 7.777	- / 5.557	- / 44.076	- / 283.200
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	440.692	65.004	34.045	61.845	70.780	132.625	53.633	74.829	67.993	69.335	601.590	1,539.746

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)

Modification Item 1 of 1: DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM /AAQ-24 (OSIP 005-08)

Installation Information

Method of Implementation (Organic): Archived B Kits Recurring - Not Installed	Installation Quantity: 23
Method of Implementation (Organic): DIRCM (B Kits) - Not Installed	Installation Quantity: 450
Method of Implementation (Organic): OCO DIRCM (B Kits) - Not Installed	Installation Quantity: 102
Method of Implementation (Organic): OCO ATW Retrofit Kits - Not Installed	Installation Quantity: 93
Method of Implementation (Organic): ATW Retrofit Kits - Not Installed	Installation Quantity: 39

Footnotes:

- (9) B-Kit unit cost varies across the FYDP based on platform type/model. Total platform requirements are based on the current planned inventory (original quantity reduced due to retiring platform assets were forward-fit to meet new platform requirements).
- (10) FY 2017 OCO DIRCM B-Kit unit cost varies across the FYDP based on platform type/model. Total platform requirements are based on the current planned inventory (original quantity reduced due to retiring platform assets were forward-fit to meet new platform requirements).
- (11) Cost To Complete (CTC) (13) remaining Advanced Threat Warning (ATW) sensor Kits to retrofit the 132 Total. Historically funded almost entirely with OCO funds; each year we buy to the available budget. The Kit cost is calculated based on 6x sensors per aircraft (MV-22) and using the current production cost. Based on production cost learning curve, economies of scale due to additional platforms, and fewer sensors per kit (5 vs 6) we plan to procure additional kits in FY 2016 (FY 2015 funds) and FY 2017 (FY 2017 funds) to buy down all remaining kits.
- (12) OCO A/C Integration NRE increase in FY17 to support KC-130-J and MV-22 integration efforts for UUNS #03606UC.
- (13) FY 2018 and FY 2020 cost increase includes testing to integrate new LAIRCM processor and Control Indicator Unit (CIU) configurations.
- (14) FY 2020 software upgrades increased to support the implementation and verification of LAIRCM with new platform Aircraft Survivability Equipment (ASE); and to implement digital interoperability requirements defined in the integrated ASE/Information Systems (iASE/IS) Interface Control Document (ICD).
- (15) In 2018 we plan to have sufficient Support Equipment (SE) quantities to support fielded assets to date. Due to the large cut in FY 2018 budget, the procurement is dedicated to B-kits knowing we can leverage platform funding or catch up the following years.
- (16) Integrated Logistics Support (ILS) increases or decreases based on new T/M/S (customers) testing and fielding schedules. CTC in ILS and Other Support exists because PMA support is required throughout the FYDP as long as Contracting, Engineering Change Proposals (ECPs), Integration, Validation and Verification, Test and Fielding continues.
- (17) Funding re-alignment in FY16 to procure 1 B-Kit, fund Navy Test, and to increase Other Support in support of the FY15 Urgent Universal Needs Statement/Joint Urgent Operational Needs Statement.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment				Modification Number / Title: 4 / COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	165.113	94.311	94.095	57.568	-	57.568	49.911	46.873	47.722	48.680	328.662	932.935
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	165.113	94.311	94.095	57.568	-	57.568	49.911	46.873	47.722	48.680	328.662	932.935
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	165.113	94.311	94.095	57.568	-	57.568	49.911	46.873	47.722	48.680	328.662	932.935
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Integrated Defensive Electronic Countermeasure (IDECM) Block (IB-4) is an Engineering Change Proposal (ECP) to the ALQ-214 intended to render it suitable for operation on the F/A-18C/D aircraft, while retaining all IDECM suite functionality when installed on F/A-18E/F aircraft. This ECP will result in a Common On-Board Jammer (OBJ) system that must meet the requirements of the OBJ Block 2 Operational Requirements Document (ORD) #624-78-03 and be compatible with the ALE-55 Fiber Optic Towed Decoy (FOTD). The Electronic Frequency Converter (EFC) enables dataflow via the fiber optic cable to the FOTD and is part of the IB-4 configuration when installed on the F/A-18E/F aircraft. This Operational Safety Improvement Program (OSIP) is for the onboard portion of the IB-4 configuration.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The ALQ-214 received Milestone III approval in January 2004 and is still in Full Rate Production (FRP). FRP 9 is the first ALQ-214 production lot in the IB-4 configuration and was awarded 3rd Qtr FY 2012. FRP 10 is the second production transition contract which was awarded in 3rd Qtr FY 2013. Production line transition to the IB-4 configuration completed in FY 2014. FRP 11 was awarded 2nd Qtr FY 2014. Annual production contract awards are expected to continue through FY 2021. A total of 190 IB-4 ALQ-214s are planned for procurement.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 4 / COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12)			
Models of Systems Affected: F/A-18C/D/E/F				Modification Type: MISSION CAPABILITY				Related RDT&E PEs: 0604270N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12)</i>													
B Kits													
Recurring													
2.1.1) ALQ-214 Retrofit Kits (C/D) Install Equipment - Organic	96 / 9.723	32 / 3.493	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	128 / 13.216	
2.1.2) ALQ-214 Retrofit Kits (E/F) Install Equipment - Organic ⁽¹⁸⁾	114 / 2.100	72 / 1.442	61 / 1.215	96 / 1.923	- / -	96 / 1.923	46 / 0.949	- / -	- / -	- / -	- / -	389 / 7.629	
2.1.3) ALQ-214 Install Equipment - Organic ⁽¹⁹⁾	49 / 108.772	46 / 81.757	48 / 88.987	20 / 48.546	- / -	20 / 48.546	17 / 41.798	16 / 39.686	16 / 40.600	16 / 41.491	96 / 268.652	324 / 760.289	
2.1.4) EFC Install Equipment - Organic	135 / 21.755	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	135 / 21.755	
<i>Subtotal: Recurring</i>	- / 142.350	- / 86.692	- / 90.202	- / 50.469	- / -	- / 50.469	- / 42.747	- / 39.686	- / 40.600	- / 41.491	- / 268.652	- / 802.889	
<i>Subtotal: COMMON ON-BOARD JAMMER (OBJ) (OSIP 004-12)</i>	394 / 142.350	150 / 86.692	109 / 90.202	116 / 50.469	- / -	116 / 50.469	63 / 42.747	16 / 39.686	16 / 40.600	16 / 41.491	96 / 268.652	976 / 802.889	
<i>Subtotal: Procurement, All Modification Items</i>	- / 142.350	- / 86.692	- / 90.202	- / 50.469	- / -	- / 50.469	- / 42.747	- / 39.686	- / 40.600	- / 41.491	- / 268.652	- / 802.889	
Support (All Modification Items)													
3.3) Training Equipment	- / 0.855	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.855	
3.6) Other Support	- / 21.908	- / 7.619	- / 3.893	- / 17.099	- / -	- / 17.099	- / 17.164	- / 17.187	- / 17.122	- / 17.189	- / 60.010	- / 129.191	
<i>Subtotal: Support</i>	- / 22.763	- / 7.619	- / 3.893	- / 17.099	- / -	- / 17.099	- / 17.164	- / 17.187	- / 17.122	- / 17.189	- / 60.010	- / 130.046	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	165.113	94.311	94.095	57.568	-	57.568	49.911	46.873	47.722	48.680	328.662	932.935	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 4 / COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12)

Modification Item 1 of 1: COMMON ON-BOARD JAMMER (OBJ)(OSIP 004-12)

Installation Information

Method of Implementation (Organic): ALQ-214 Retrofit Kits (C/D) Install Equipment - Not Installed	Installation Quantity: 128
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Method of Implementation (Organic): ALQ-214 Retrofit Kits (E/F) Install Equipment - Not Installed	Installation Quantity: 389
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Method of Implementation (Organic): ALQ-214 Install Equipment - Not Installed	Installation Quantity: 324
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Method of Implementation (Organic): EFC Install Equipment - Not Installed	Installation Quantity: 135
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Footnotes:

⁽¹⁸⁾ E/F Install Equipment unit cost is based upon projected cost. Additional 65 ALQ-214 E/F Retrofit kits procured to correlate to additional aircraft procured by PMA-265. ALQ-214 E/F Retrofit Kits quantity increased by 134 kits due to N98 inventory objective requirements, documented in N98 memo Serial Number: N98/13U146134, dated 4 February 2013. Retrofit kits procured through FY 2018 to support operational deployments with the Block 4 Capability. FY 2016 begins a new Firm Fixed Price (FFP) contract; estimated unit cost is based upon the Cost Model.

⁽¹⁹⁾ ALQ-214 Block 4 quantity increased by 134 systems due to N98 inventory objective requirements, documented in N98 memo Serial Number: N98/13U146134, dated 4 February 2013. Quantity increase in FY 2015 and FY 2016 due to reduced unit cost negotiated in Full Rate Production (FRP)12 and FRP13 ALQ-214 contract. Unit cost increase from FY 2015 to FY 2016 due to NAVSUP procuring spares in FY 2015. FY 2017 unit cost increase is based on projected inflation and associated contract cost. Additional units to be procured in FY 2017 resulting in a 1 year earlier completion of the program. COBJ is a buy to budget program. PMA-265 procurement requirements for ALQ-214 ended in FY 2014. Prior year does not reflect an additional 2 ALQ-214 units procured with PMA 265 funding.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment				Modification Number / Title: 5 / CORRECTIONS OF DISCREPANCIES (OSIP 017-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.023	0.330	0.463	0.442	-	0.442	-	-	-	-	-	2.258
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.023	0.330	0.463	0.442	-	0.442	-	-	-	-	-	2.258
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.023	0.330	0.463	0.442	-	0.442	-	-	-	-	-	2.258
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: This Operational Safety Improvement Program (OSIP) is for the correction of discrepancies and to effect changes to ALR-67(V) 2 system and electronic countermeasure equipment in aircraft that have been delivered for fleet operations. This system requires various upgrade initiative and logistic support to keep the F/A-18 a capable aircraft with a robust defensive system that improves its survivability. This OSIP will provide funding for the upgrade of the ALR-67(V) 2 computer, low band antenna, special receiver and quadrant receiver weapons replaceable assemblies.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The contractor will develop a Preliminary Design Review (PDR) for Program Control Unit (PCU)1 drawing package and prototype Circuit Card Assemblies (CCA), and perform Critical Design Review (CDR); conduct system testing, evaluations, environmental and qualification testing; modify Shop Replaceable Assemblies (SRA) with Diminished Manufacturing Source (DMS) issues and develop Acceptance Test Plans (ATP) and Engineering Change Proposals (ECP); and, verify testing and evaluations of new designs. The US Navy Fleet Support Team will provide system engineering qualification on aircraft, support equipment, and develop Technical directives and any additional Integrated Logistics Support (ILS) requirements. The US Navy and contractor software support activities will develop software integrations.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 5 / CORRECTIONS OF DISCREPANCIES (OSIP 017-12)			
Models of Systems Affected: F/A-18C/D/E/F				Modification Type: SAFETY/RELIABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: CORRECTIONS OF DISCREPANCIES (OSIP 017-12)</i>													
A Kits													
Recurring													
1.1.1) RR-2055 Special Receiver (SRA) - Organic	15 / 0.246	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.246	
1.1.2) RR-2055 Special Receiver ECP- TBD - Organic	- / -	- / -	7 / 0.270	8 / 0.270	- / -	8 / 0.270	- / -	- / -	- / -	- / -	- / -	15 / 0.540	
1.1.3) CP-1293 PCU-1 - Organic	- / 0.117	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.117	
Subtotal: Recurring	- / 0.363	- / -	- / 0.270	- / 0.270	- / -	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / 0.903	
Non-Recurring													
1.2.1) Installation Kits NR - Organic	- / -	- / 0.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.130	
Subtotal: Non-Recurring	- / 0.000	- / 0.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.130	
Subtotal: CORRECTIONS OF DISCREPANCIES (OSIP 017-12)	15 / 0.363	- / 0.130	7 / 0.270	8 / 0.270	- / -	8 / 0.270	- / -	- / -	- / -	- / -	- / -	30 / 1.033	
Subtotal: Procurement, All Modification Items	- / 0.363	- / 0.130	- / 0.270	- / 0.270	- / -	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / 1.033	
Support (All Modification Items)													
3.6) Other Support ⁽²⁰⁾	- / 0.660	- / 0.200	- / 0.193	- / 0.172	- / -	- / 0.172	- / -	- / -	- / -	- / -	- / -	- / 1.225	
Subtotal: Support	- / 0.660	- / 0.200	- / 0.193	- / 0.172	- / -	- / 0.172	- / -	- / -	- / -	- / -	- / -	- / 1.225	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	1.023	0.330	0.463	0.442	-	0.442	-	-	-	-	-	2.258	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 5 / CORRECTIONS OF DISCREPANCIES (OSIP 017-12)
Modification Item 1 of 1: CORRECTIONS OF DISCREPANCIES (OSIP 017-12)		
Installation Information		
Method of Implementation (Organic): RR-2055 Special Receiver (SRA) - Not Installed		Installation Quantity: 15
Method of Implementation (Organic): RR-2055 Special Receiver ECP- TBD - Not Installed		Installation Quantity: 15
Footnotes: (20) Other Support in FY 2015 - FY 2017 is to fund RR-2055 Special Receiver procurement receipt and modification.		

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment				Modification Number / Title: 6 / ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.732	0.718	0.892	-	0.892	0.837	0.941	-	-	-	4.120
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.732	0.718	0.892	-	0.892	0.837	0.941	-	-	-	4.120
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.732	0.718	0.892	-	0.892	0.837	0.941	-	-	-	4.120
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: This Operational Safety Improvement Program (OSIP) is for the correction of discrepancies to affect changes to assault Electronic Countermeasure (ECM) equipment in aircraft that have been delivered for fleet operations. These ECM systems require various upgrade initiatives and logistic support to keep these aircraft mission capable with a robust defensive system that ensures its survivability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The contract will modify shop replaceable assemblies with diminished manufacturing source issues and conduct engineering change proposals, and verify testing and evaluations of modification designs. The United States Navy Fleet Support Team will provide system engineering qualifications on aircraft, support equipment, write technical directives, upgrade technical data and perform any additional integrated logistics support requirements. United States Navy and contractor software support activities will integrate software as needed.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 6 / ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)			
Models of Systems Affected: MH-SH-60 R/S, AH-1W					Modification Type: SAFETY/RELIABILITY					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)</i>													
B Kits													
Recurring													
3.1.1) Infrared Source - Organic	- / -	- / -	105 / 0.525	165 / 0.697	- / -	165 / 0.697	173 / 0.692	180 / 0.699	- / -	- / -	- / -	623 / 2.613	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.525</i>	<i>- / 0.697</i>	<i>- / -</i>	<i>- / 0.697</i>	<i>- / 0.692</i>	<i>- / 0.699</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 2.613</i>	
Non-Recurring													
3.2.1) B-Kits NRE - Organic	- / -	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	
<i>Subtotal: Non-Recurring</i>	<i>- / 0.000</i>	<i>- / 0.600</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.600</i>	
<i>Subtotal: ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)</i>	<i>- / -</i>	<i>- / 0.600</i>	<i>105 / 0.525</i>	<i>165 / 0.697</i>	<i>- / -</i>	<i>165 / 0.697</i>	<i>173 / 0.692</i>	<i>180 / 0.699</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>623 / 3.213</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / 0.600</i>	<i>- / 0.525</i>	<i>- / 0.697</i>	<i>- / -</i>	<i>- / 0.697</i>	<i>- / 0.692</i>	<i>- / 0.699</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 3.213</i>	
Support (All Modification Items)													
4.1) Other Support	- / -	- / 0.132	- / 0.193	- / 0.195	- / -	- / 0.195	- / 0.145	- / 0.242	- / -	- / -	- / -	- / 0.907	
<i>Subtotal: Support</i>	<i>- / 0.000</i>	<i>- / 0.132</i>	<i>- / 0.193</i>	<i>- / 0.195</i>	<i>- / -</i>	<i>- / 0.195</i>	<i>- / 0.145</i>	<i>- / 0.242</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.907</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.732	0.718	0.892	-	0.892	0.837	0.941	-	-	-	4.120	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 6 / ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)
Modification Item 1 of 1: ASSAULT CORRECTION OF DISCREPANCIES (OSIP 004-15)		
Installation Information		
Method of Implementation (Organic): Infrared Source - Not Installed		Installation Quantity: 623

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment				Modification Number / Title: 7 / ASSAULT DIRCM (OSIP 018-17)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	-	27.460	27.460	-	-	-	-	-	27.460
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	-	27.460	27.460	-	-	-	-	-	27.460
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	-	27.460	27.460	-	-	-	-	-	27.460
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Description: Assault Direct Infrared Countermeasures (ADIRCM) is a lightweight Threat Warning System (TWS) and IRCM developed by the Navy Research Lab under an FY04 Office of Naval Research Future Naval Capability (FN04-03), Integrated E/O IR Self Protect Suite for Rotary Wing Aircraft. PMA272 has funded this Future Naval Capability (FNC) since 2006 as a risk mitigator for both the Joint and Allied Threat Awareness System (JATAS) and the Common Infrared Countermeasures (CIRCM) system. The ADIRCM system offers significant savings in size, weight and power (SWaP) and cost avoidance. The system consists of a centralized processor and laser with high power fibers leading to two-color IR sensors. Each sensor incorporates a pointer tracker, which allows the laser energy to be focused on incoming threats. FY 2017 OCO funds for ADIRCM provides increased survivability against surface to air IR missiles, laser guided threats, small arms, anti-aircraft artillery (AAA), machine guns and rocket propelled grenades for combat, assault rotary wing and fixed wing aircraft in theater.

Developmental efforts: The scope of the Joint Urgent Operational Needs Statement (JUONS) phase includes the non-recurring engineering (NRE) required to develop, integrate and test all hardware, software and firmware to field ADIRCM. Efforts will also include the manufacturing of ADIRCM test articles, test bench fixtures, fleet representative hardware and system training. Two prime contractors, DRS and Daylight Solutions will be awarded sole source contracts for the ADIRCM WRAs. During the JUONS phase, the ADIRCM system will be installed on the following USN/USMC aircraft identified in JUONS SO-0010: AH-1Z, UH-1Y, and MH-60S. The ADIRCM configuration on these aircraft will include one processor, one laser and four sensors. The U.S. Navy's MH-60S is the lead platform with ADIRCM installation currently planned in 2017 through 2018. The U.S. Marine Corps' UH-1Y and AH-1Z are also scheduled for ADIRCM installation in 2017 and 2018.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 7 / ASSAULT DIRCM (OSIP 018-17)			
Models of Systems Affected: AH-1Z, UH-1Y, MH-60S					Modification Type: TBD					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: ASSAULT DIRCM (OSIP 018-17)</i>													
B Kits													
Recurring													
2.1.1) OCO Install Equip AH-1Z - Organic	- / -	- / -	- / -	- / -	5 / 9.725	5 / 9.725	- / -	- / -	- / -	- / -	- / -	5 / 9.725	
2.1.2) OCO Install Equip UH-1Y - Organic	- / -	- / -	- / -	- / -	4 / 7.780	4 / 7.780	- / -	- / -	- / -	- / -	- / -	4 / 7.780	
2.1.3) OCO Install Equip MH-60S - Organic	- / -	- / -	- / -	- / -	3 / 5.835	3 / 5.835	- / -	- / -	- / -	- / -	- / -	3 / 5.835	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 23.340</i>	<i>- / 23.340</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 23.340</i>	
<i>Subtotal: ASSAULT DIRCM (OSIP 018-17)</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>12 / 23.340</i>	<i>12 / 23.340</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>12 / 23.340</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 23.340</i>	<i>- / 23.340</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 23.340</i>	
Support (All Modification Items)													
3.1) OCO Other Support	- / -	- / -	- / -	- / -	- / 14.120	- / 14.120	- / -	- / -	- / -	- / -	- / -	- / 14.120	
<i>Subtotal: Support</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 14.120</i>	<i>- / 14.120</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 14.120</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	27.460	27.460	-	-	-	-	-	27.460	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 7 / ASSAULT DIRCM (OSIP 018-17)
<i>Modification Item 1 of 1:</i> ASSAULT DIRCM (OSIP 018-17)		
Installation Information		
Method of Implementation (Organic): OCO Install Equip AH-1Z - Not Installed		Installation Quantity: 5
Method of Implementation (Organic): OCO Install Equip UH-1Y - Not Installed		Installation Quantity: 4
Method of Implementation (Organic): OCO Install Equip MH-60S - Not Installed		Installation Quantity: 3

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 8 / INACTIVE OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	736.954	-	-	-	-	-	-	-	-	-	-	736.954
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	736.954	-	-	-	-	-	-	-	-	-	-	736.954
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	736.954	-	-	-	-	-	-	-	-	-	-	736.954
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 8 / INACTIVE OSIPs			
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: INACTIVE OSIPs</i>													
A Kits													
Recurring													
1.1.1) Inactive OSIP - Organic	- / 736.954	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 736.954	
<i>Subtotal: Recurring</i>	- / 736.954	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 736.954	
<i>Subtotal: INACTIVE OSIPs</i>	- / 736.954	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 736.954	
<i>Subtotal: Procurement, All Modification Items</i>	- / 736.954	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 736.954	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	736.954	-	-	-	-	-	-	-	-	-	-	736.954	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 8 / INACTIVE OSIPs
Modification Item 1 of 1: INACTIVE OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0577 / Common Avionics Changes
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,166.485	146.084	169.590	164.839	-	164.839	148.275	156.777	113.777	137.956	302.860	3,506.643
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,166.485	146.084	169.590	164.839	-	164.839	148.275	156.777	113.777	137.956	302.860	3,506.643
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,166.485	146.084	169.590	164.839	-	164.839	148.275	156.777	113.777	137.956	302.860	3,506.643

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in COMMON AVIONICS CHANGES by \$4.539M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

This line item funds common avionics equipment for multiple aircraft.

The specific modifications budgeted and programmed are: The Navigation Satellite Timing and Ranging Global Positioning System (GPS) program is designed to provide a highly accurate position and time to users worldwide in all weather conditions. The GPS will interface with communication, navigation, and weapon systems equipment (standard attitude heading reference systems, inertial navigation systems, on-board computers, etc.) in selected applications. GPS is a Department of Defense mandated requirement for all aircraft operating in the National Air Space System after the year 2000. Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) provides civil upgrades to communication, navigation, and surveillance systems enabling global access to increasingly congested airspace, and Global Positioning System (GPS) based routes and procedures. Aircrew Wireless Internal Communications System (AWICS) is a safety generated program that provides a wireless Internal Communication System (ICS) capability to prevent aircrew/passenger entanglement with ICS long cords in the event of mishap and allows unimpeded movement throughout the aircraft. Avionics Component Improvement Program (AvCIP) provides resources to address avionics component critical readiness degraders, performance reliability deficiencies, obsolescence threatening loss of sustainability and top Fleet operational or support cost drivers. Blue Force Situational Awareness (BFSA) actively or passively identify and track United States, allied, or coalition forces for the purpose of providing enhanced battle space situational awareness and reducing fratricide. Military Flight Operations Quality Assurance (MFOQA) provides the war fighter with timely and quantitative information regarding aircrew and system performance for improving safety, operational efficiency, and readiness.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0577 / Common Avionics Changes

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Global Positioning System (GPS) (OSIP 71-88) (Common Avionics (Safety) (Added Capability))			- / 374.301	- / 2.060	- / 6.699	- / 7.091	- / -	- / 7.091
P-3a	2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01) (Common Avionics Modification)			- / 693.667	- / 134.389	- / 143.203	- / 152.748	- / -	- / 152.748
P-3a	3 / Aircrew Wireless Internal Communications System (AWICS) (OSIP 09-04) (Common Avionics Modification)			- / 26.131	- / 0.718	- / 0.500	- / -	- / -	- / -
P-3a	4 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09) (Common Avionics Modification)			- / 11.755	- / 3.965	- / 5.000	- / 5.000	- / -	- / 5.000
P-3a	5 / Blue Force Situational Awareness (OSIP 10-11) (Common Avionics Modification)			- / 51.538	- / -	- / 12.188	- / -	- / -	- / -
P-3a	6 / Military Flight Operations Quality Assurance (MFOQA) (OSIP 011-12) (Common Avionics Modification)			- / 0.401	- / 4.952	- / 2.000	- / -	- / -	- / -
P-3a	7 / Inactive OSIPs (TBD)			- / 1,008.692	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 2,166.485	- / 146.084	- / 169.590	- / 164.839	- / -	- / 164.839

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Global Positioning System (GPS) (OSIP 71-88) (Common Avionics (Safety) (Added Capability))			- / 7.439	- / 7.529	- / 10.305	- / 35.404	- / 106.025	- / 556.853
P-3a	2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01) (Common Avionics Modification)			- / 135.836	- / 144.248	- / 98.372	- / 97.350	- / 66.300	- / 1,666.113
P-3a	3 / Aircrew Wireless Internal Communications System (AWICS) (OSIP 09-04) (Common Avionics Modification)			- / -	- / -	- / -	- / -	- / -	- / 27.349
P-3a	4 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09) (Common Avionics Modification)			- / 5.000	- / 5.000	- / 5.100	- / 5.202	- / 130.535	- / 176.557
P-3a	5 / Blue Force Situational Awareness (OSIP 10-11) (Common Avionics Modification)			- / -	- / -	- / -	- / -	- / -	- / 63.726
P-3a	6 / Military Flight Operations Quality Assurance (MFOQA) (OSIP 011-12) (Common Avionics Modification)			- / -	- / -	- / -	- / -	- / -	- / 7.353
P-3a	7 / Inactive OSIPs (TBD)			- / -	- / -	- / -	- / -	- / -	- / 1,008.692
P-40	Total Gross/Weapon System Cost			- / 148.275	- / 156.777	- / 113.777	- / 137.956	- / 302.860	- / 3,506.643

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The overall goal of the modifications budgeted in Fiscal Year (FY) 2017 is to procure the common equipment required for the individual aircraft platforms.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes				Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	374.301	2.060	6.699	7.091	-	7.091	7.439	7.529	10.305	35.404	106.025	556.853
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	374.301	2.060	6.699	7.091	-	7.091	7.439	7.529	10.305	35.404	106.025	556.853
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	374.301	2.060	6.699	7.091	-	7.091	7.439	7.529	10.305	35.404	106.025	556.853
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Navigation Satellite Timing and Ranging (NAVSTAR) Global Positioning System (GPS) is designed to provide highly accurate position and time to users worldwide in all weather conditions. GPS will be integrated with communication, navigation, and weapon systems equipment (attitude heading reference systems, inertial navigation systems, mission computers, etc.). The program procures and modifies GPS equipment such as receivers, antennas, amplifiers, and protection technologies as required for naval aviation platforms. Navigation Warfare (NAVWAR) protection technologies protect a platform's GPS capability from GPS jamming and unintentional interference. Hardware configurations vary with each Type/Model/Series aircraft. The GPS Operational Requirement Document (ORD) 003-78 dated 22 January 1990 was based on an Air Force General Operating Requirement dated 28 January 1978. The Navy ORD for Enhanced GPS User Equipment for NAVWAR and GPS Modernization was approved on 7 June 2000.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The NAVSTAR GPS program completed Phase II (Full Scale Engineering Development) and completed Milestone IIIA (Approval for Limited Production) in June 1986. Milestone IIIB (Approval for Full Production) was completed in January 1992. The NAVWAR full rate production approval was received in June 2002. Research, Development, Test and Evaluation, Navy is funded under program element #0604777N.

FOOTNOTES:

Delivery of A-kits for F/A-18E/F and EA-18G commence 18 months after contract award and deliver at a rate of four (4) per month. Fleet fielding of NAVWAR for F/A-18 E/F and EA-18G starts in FY15 with kits ordered in FY12 (deliveries commenced 3Q of FY14). Due to production line limitations and delays the FY13 kits will begin delivery in 4Q FY15 for installations in FY16. Boeing notified the Contracting Officer on 5 December 2014, that due to production delays at Northrop Grumman, the delivery of 12 A-Kits procured with FY14 funds would be delayed one year (from FY15 to FY16) and will be installed in FY16 with prior year funding.

FY16 (36) installs funded with prior year funding. As a result of HAC mark to FY16 installations (Funds previously appropriated), FY17 procurement reduced from (24) to (12) in order to fund an additional (11) installs of prior year kits.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0577 / Common Avionics Changes					Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)			
Models of Systems Affected: All Aircraft as directed by OPNAV					Modification Type: Common Avionics (Safety) (Added Capability)					Related RDT&E PEs: 0604777N			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Global Positioning System (GPS) (OSIP 71-88)</i>													
A Kits													
Recurring													
1.1.1) NAVWAR (All Aircraft Excluding AV-8B) - NonOrganic ⁽¹⁾	92 / 12.550	- / -	24 / 2.352	24 / 2.352	- / -	24 / 2.352	24 / 2.400	24 / 2.424	24 / 2.448	24 / 2.472	288 / 29.664	524 / 56.662	
1.1.2) Archived ECPs - NonOrganic	- / 4.875	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.875	
Subtotal: Recurring	- / 17.425	- / -	- / 2.352	- / 2.352	- / -	- / 2.352	- / 2.400	- / 2.424	- / 2.448	- / 2.472	- / 29.664	- / 61.537	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 4.303	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.303	
Subtotal: Non-Recurring	- / 4.303	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.303	
B Kits													
Recurring													
2.1.1) GPS - Organic	2,047 / 173.823	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,047 / 173.823	
2.1.2) NAVWAR - Organic	604 / 31.726	- / -	24 / 2.351	24 / 2.352	- / -	24 / 2.352	24 / 2.400	24 / 2.424	44 / 5.148	224 / 29.672	288 / 29.664	1,256 / 105.737	
Subtotal: Recurring	- / 205.549	- / -	- / 2.351	- / 2.352	- / -	- / 2.352	- / 2.400	- / 2.424	- / 5.148	- / 29.672	- / 29.664	- / 279.560	
Non-Recurring													
2.2.1) Installation Equipment N/R. - Organic	- / 23.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.933	
Subtotal: Non-Recurring	- / 23.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.933	
Subtotal: Global Positioning System (GPS) (OSIP 71-88)	2,743 / 251.210	- / -	48 / 4.703	48 / 4.704	- / -	48 / 4.704	48 / 4.800	48 / 4.848	68 / 7.596	248 / 32.144	576 / 59.328	3,827 / 369.333	
Subtotal: Procurement, All Modification Items	- / 251.210	- / -	- / 4.703	- / 4.704	- / -	- / 4.704	- / 4.800	- / 4.848	- / 7.596	- / 32.144	- / 59.328	- / 369.333	
Support (All Modification Items)													
3.1) NAVWAR Kit ECO	- / 2.547	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.547	
3.2) Data	- / 8.332	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.332	
3.3) Training Equipment - GPS	114 / 7.803	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	114 / 7.803	
3.4) Training Equipment - NAVWAR	3 / 0.529	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.529	
3.5) Support Equipment	4 / 0.642	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.642	
3.6) ILS	- / 2.096	- / 0.230	- / 0.342	- / 0.200	- / -	- / 0.200	- / 0.304	- / 0.305	- / 0.300	- / 0.300	- / 11.275	- / 15.352	
3.7) Other Support	- / 96.897	- / 1.139	- / 1.654	- / 1.312	- / -	- / 1.312	- / 1.711	- / 1.740	- / 1.761	- / 1.798	- / 25.775	- / 133.787	
Subtotal: Support	- / 118.846	- / 1.369	- / 1.996	- / 1.512	- / -	- / 1.512	- / 2.015	- / 2.045	- / 2.061	- / 2.098	- / 37.050	- / 168.992	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)

Models of Systems Affected: All Aircraft as directed by OPNAV	Modification Type: Common Avionics (Safety) (Added Capability)	Related RDT&E PEs: 0604777N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Installation												
<i>Modification Item 1 of 1:</i> Global Positioning System (GPS) (OSIP 71-88)	- / 4.245	- / 0.691	- / -	- / 0.875	- / -	- / 0.875	- / 0.624	- / 0.636	- / 0.648	- / 1.162	- / 9.647	- / 18.528
<i>Subtotal: Installation</i>	- / 4.245	- / 0.691	- / -	- / 0.875	- / -	- / 0.875	- / 0.624	- / 0.636	- / 0.648	- / 1.162	- / 9.647	- / 18.528
Total												
Total Cost (Procurement + Support + Installation)	374.301	2.060	6.699	7.091	-	7.091	7.439	7.529	10.305	35.404	106.025	556.853

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)

Modification Item 1 of 1: Global Positioning System (GPS) (OSIP 71-88)

Manufacturer Information

Manufacturer Name: The Boeing Company - All Aircraft (Excluding AV-8B)	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 18

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021
Delivery Dates		Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022

Installation Information

Method of Implementation: [none specified]:: Installation Name: NAVWAR (All Aircraft Excluding AV-8B)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	10 / 4.245	11 / 0.691	36 / 0.000	35 / 0.875	- / 0.000	35 / 0.875	- / -	- / -	- / -	- / -	- / 0.000	92 / 5.811
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.624	- / -	- / -	- / -	- / -	24 / 0.624
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.636	- / -	- / -	- / -	24 / 0.636
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.648	- / -	- / -	24 / 0.648
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.162	- / -	24 / 1.162
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.710	24 / 0.710
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.654	24 / 0.654
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	288 / 8.283	288 / 8.283
Total	10 / 4.245	11 / 0.691	36 / -	35 / 0.875	- / -	35 / 0.875	24 / 0.624	24 / 0.636	24 / 0.648	24 / 1.162	336 / 9.647	524 / 18.528

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	10	-	-	-	11	6	6	12	12	9	9	9	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	336	524
Out	10	-	-	-	11	6	6	12	12	9	9	9	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	336	524

Method of Implementation (Organic): GPS **Installation Quantity:** 2047

Method of Implementation (Organic): NAVWAR **Installation Quantity:** 1256

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)

Footnotes:

⁽¹⁾ FY16 (36) installs funded with prior year funding.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes						Modification Number / Title: 2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	693.667	134.389	143.203	152.748	-	152.748	135.836	144.248	98.372	97.350	66.300	1,666.113
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	693.667	134.389	143.203	152.748	-	152.748	135.836	144.248	98.372	97.350	66.300	1,666.113
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	693.667	134.389	143.203	152.748	-	152.748	135.836	144.248	98.372	97.350	66.300	1,666.113

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) provides new and enhanced hardware and software solutions leveraging open architecture where cost effective, to comply with national and worldwide civil and military airspace requirements. Solutions include communication, navigation, surveillance and supporting technologies that facilitate air traffic management, and other civil and military operational capabilities. Impacts of non-compliance with airspace standards will include operational delays, circuitous rerouting, or access denial to controlled airspace.

Prioritization of platform type and quantity is based on missions and anticipated operations in affected airspace. Required functionalities include Mode Select (S), 8.33 kHz Channel Spacing, Required Navigation Performance Area Navigation (RNP RNAV), Reduced Vertical Separation Minimum (RVSM), Automatic Dependent Surveillance - Broadcast (Out) (ADS-B(O)), Mission Planning integration, Protected Instrument Landing System (P-ILS), cockpit aircraft data storage, processing and display capabilities.

Cost per quantity variation is due to variation in platforms, platform quantities, associated equipment per platform, and cost per equipment. Some A-Kits consist of a small number of wire bundles while other A-Kits consist of multiple wire bundles and structural components which increase unit cost. B-Kits vary by T/M/S and capability. Kit components within a platform will vary based on the number of configurations within that platform.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- AH-1Z/UH-1Y 8.33 kHz (FY14-FY16), Mode S (FY14-FY17), RNP RNAV (FY17-FY20), ADS-B(O) (FY14-FY21)
- C-130T Mode S (FY12-FY20), RNP RNAV (FY13-FY20), ADS-B(O) (FY14-FY20), 8.33 kHz (FY12-FY20)
- C-2A ADS-B(O) (FY14-FY17)
- C-26 ADS-B(O) (FY17), 8.33 kHz (FY17), RNP RNAV (FY17)
- CH-53E ADS-B(O) (FY15-FY18)
- E-2C ADS-B(O) (FY15-FY18)
- E-2D 8.33 kHz (FY14), Mode S (FY14), RNP RNAV (FY14-FY18), ADS-B(O) (FY15-FY19)
- E-6B ADS-B(O) (FY17-FY20), RNP RNAV (FY17-FY20)
- EA-18G RNP RNAV (FY14-FY19), ADS-B(O) (FY15-FY20)
- F/A-18A+ Mode S (FY13-FY17), RVSM (FY13-FY20), ADS-B(O) (FY15-FY20)
- F/A-18A++ ADS-B(O) (FY15-FY20)
- F/A-18C/D Mode S (FY13-FY14), RNP RNAV (FY10-FY17), RVSM (FY13-FY17), ADS-B(O) (FY15-FY20)
- F/A-18E/F RNP RNAV (FY14 -FY19), ADS-B(O) (FY15-FY20)

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)
<p>K/C-130J RNP RNAV (FY18), ADS-B(O) (FY16-FY20) KC-130T ADS-B(O) (FY16-FY19) MH-53E 8.33 kHz (FY16-FY18), Mode S (FY15-FY18), RNP RNAV (FY14-FY21), ADS-B(O) (FY16-FY18) MH-60R/S 8.33 kHz (FY14-FY18), RNP RNAV (FY16-FY21), ADS-B(O) (FY14-FY18) MQ-4C ADS B(O) (FY16-FY19), RNP RNAV (FY16-FY19), RVSM (FY16-FY19), 8.33 KHz (FY16-FY19), Mode S (FY16-FY19) MQ-8B-C ADS-B(O) (FY18-FY21), RNP RNAV (FY18-FY21), RVSM (FY18-FY21) MV-22B 8.33 kHz (FY14-FY16), Mode S (FY13-FY16), RNP RNAV (FY14-FY18), ADS-B(O) (FY15-FY18) NU-1B ADS-B(O) (FY16-FY17) O-2A ADS-B(O) (FY15-FY16) P-3C/EP-3E ADS-B(O) (FY15-FY18) P-8A ADS-B(O) (FY16-FY18) T/AV-8B Mode S (FY16-FY18), RNP RNAV (FY13-FY18), ADS-B(O) (FY16-FY20) T-38C ADS-B(O) (FY16-FY17) TH-67A ADS-B(O) (FY17-FY20) U-6A ADS-B(O) (FY16-FY17) UH-72A ADS-B(O) (FY16-FY17) UV-18A ADS-B(O) (FY15-FY16) VH-3D ADS-B(O) (FY17-FY19) VH-60N 8.33 kHz (FY14-FY16), Mode S (FY14-FY16), RNP RNAV (FY14-FY18), ADS-B(O) (FY16-FY19) F-5 F/N ADS-B(O) (FY16-FY19) F-16 A/B ADS-B(O) (FY16-FY19) F-35 B/C Mode S (FY5-FY16), RVSM (FY15-FY16), RNP RNAV (FY18-FY20), ADS-B(O) (FY18-FY20) C-26 ADS-B(O) (FY17-FY19), 8.33 kHz (FY17), RNP RNAV (FY17) E-6B ADS-B(O) (FY16-FY18), Mode S (FY16-FY18) VH-92A 8.33 kHz (FY16-FY20), RNP RNAV (FY16-FY20), Mode S (FY16-FY20), ADS-B(O) (FY16-FY20)</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy											Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes							Modification Number / Title: 2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)			
Models of Systems Affected: All A/C as directed by OPNAV				Modification Type: Common Avionics Modification				Related RDT&E PEs: 0604215N						
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1: Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)</i>														
A Kits														
Recurring														
1.1.1) CNS/ATM A-Kit (All other A/C excluding T-38 and TPS platforms) - NonOrganic ⁽²⁾	282 / 23.873	- / -	30 / 0.610	51 / 7.730	- / -	51 / 7.730	36 / 6.225	153 / 15.220	109 / 8.278	106 / 8.098	167 / 2.521	934 / 72.555		
1.1.2) CNS/ATM A-Kit (T-38 and TPS) - NonOrganic	- / -	3 / 0.004	8 / 0.012	10 / 0.138	- / -	10 / 0.138	- / -	- / -	- / -	- / -	- / -	21 / 0.154		
Subtotal: Recurring	- / 23.873	- / 0.004	- / 0.622	- / 7.868	- / -	- / 7.868	- / 6.225	- / 15.220	- / 8.278	- / 8.098	- / 2.521	- / 72.709		
Non-Recurring														
1.2.1) Installation Kits N/R - Organic ⁽³⁾	- / 36.428	- / 7.834	- / 7.303	- / 7.121	- / -	- / 7.121	- / 4.578	- / 0.158	- / -	- / -	- / -	- / 63.422		
Subtotal: Non-Recurring	- / 36.428	- / 7.834	- / 7.303	- / 7.121	- / -	- / 7.121	- / 4.578	- / 0.158	- / -	- / -	- / -	- / 63.422		
B Kits														
Recurring														
2.1.1) Installation Equipment - CNS/ATM Equip - Organic ⁽⁴⁾	1,053 / 106.502	180 / 13.559	11 / 1.873	183 / 34.088	- / -	183 / 34.088	174 / 19.447	364 / 55.885	236 / 37.295	299 / 66.767	222 / 30.608	2,722 / 366.024		
2.1.2) Installation Equipment - CNS/ATM P-ILS - Organic	713 / 2.731	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	713 / 2.731		
Subtotal: Recurring	- / 109.233	- / 13.559	- / 1.873	- / 34.088	- / -	- / 34.088	- / 19.447	- / 55.885	- / 37.295	- / 66.767	- / 30.608	- / 368.755		
Non-Recurring														
2.2.1) Installation Equipment N/R - Organic ⁽⁵⁾	14 / 180.833	- / 77.300	- / 76.596	- / 50.737	- / -	- / 50.737	- / 66.792	- / 32.291	- / 18.422	- / -	- / 0.230	14 / 503.201		
Subtotal: Non-Recurring	- / 180.833	- / 77.300	- / 76.596	- / 50.737	- / -	- / 50.737	- / 66.792	- / 32.291	- / 18.422	- / -	- / 0.230	- / 503.201		
Subtotal: Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)	2,062 / 350.367	183 / 98.697	49 / 86.394	244 / 99.814	- / -	244 / 99.814	210 / 97.042	517 / 103.554	345 / 63.995	405 / 74.865	389 / 33.359	4,404 / 1,008.087		
Subtotal: Procurement, All Modification Items	- / 350.367	- / 98.697	- / 86.394	- / 99.814	- / -	- / 99.814	- / 97.042	- / 103.554	- / 63.995	- / 74.865	- / 33.359	- / 1,008.087		
Support (All Modification Items)														
3.1) Engineering Change Orders	- / 1.372	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.372		
3.2) Data ⁽⁶⁾	- / 6.533	- / -	- / 0.743	- / 2.868	- / -	- / 2.868	- / 0.075	- / 1.375	- / -	- / -	- / -	- / 11.594		
3.3) Training ⁽⁷⁾	20 / 14.315	- / 0.857	- / 4.407	- / 17.392	- / -	- / 17.392	- / 2.751	- / 10.840	- / 3.021	- / -	- / -	20 / 43.583		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)

Models of Systems Affected: All A/C as directed by OPNAV	Modification Type: Common Avionics Modification	Related RDT&E PEs: 0604215N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.4) Support Equipment	- / 6.563	- / -	- / 0.277	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.840
3.5) ILS	- / 15.095	- / 1.016	- / 4.942	- / 0.611	- / -	- / 0.611	- / 0.424	- / 0.127	- / -	- / -	- / -	- / 22.215
3.6) Other Support ⁽⁶⁾	- / 268.780	- / 33.766	- / 46.157	- / 41.239	- / -	- / 41.239	- / 33.265	- / 24.449	- / 23.425	- / 16.164	- / 17.319	- / 504.564
<i>Subtotal: Support</i>	- / 312.658	- / 35.639	- / 56.526	- / 52.110	- / -	- / 52.110	- / 36.515	- / 36.791	- / 26.446	- / 16.164	- / 17.319	- / 590.168
Installation												
<i>Modification Item 1 of 1:</i> Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)	- / 30.642	- / 0.053	- / 0.283	- / 0.824	- / -	- / 0.824	- / 2.279	- / 3.903	- / 7.931	- / 6.321	- / 15.622	- / 67.858
<i>Subtotal: Installation</i>	- / 30.642	- / 0.053	- / 0.283	- / 0.824	- / -	- / 0.824	- / 2.279	- / 3.903	- / 7.931	- / 6.321	- / 15.622	- / 67.858
Total												
Total Cost (Procurement + Support + Installation)	693.667	134.389	143.203	152.748	-	152.748	135.836	144.248	98.372	97.350	66.300	1,666.113

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)

Modification Item 1 of 1: Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)

Manufacturer Information

Manufacturer Name: Various ⁽⁹⁾				Manufacturer Location: Various			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 11			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates		Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021

Manufacturer Name: Various ⁽¹⁰⁾				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016				
Delivery Dates	Feb 2015	Feb 2016	Feb 2017				

Installation Information

Method of Implementation: All A/C except T-38, NU-1B, U-6A, O-2A, UH-72A, UV-18A:: Installation Name: CNS/ATM A-Kit (All other

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	277 / 30.642	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	277 / 30.642
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	30 / 0.618	- / -	30 / 0.618	- / -	- / -	- / -	- / -	- / -	30 / 0.618
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	51 / 2.279	- / -	- / -	- / -	- / -	51 / 2.279
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 3.903	- / -	- / -	- / -	36 / 3.903
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	153 / 7.931	- / -	- / -	153 / 7.931
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	109 / 6.321	- / -	109 / 6.321
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 6.222	106 / 6.222
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	167 / 9.400	167 / 9.400
Total	277 / 30.642	- / -	- / -	30 / 0.618	- / -	30 / 0.618	51 / 2.279	36 / 3.903	153 / 7.931	109 / 6.321	273 / 15.622	929 / 67.316

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)

Modification Item 1 of 1: Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)

Installation Information

Method of Implementation: All A/C except T-38, NU-1B, U-6A, O-2A, UH-72A, UV-18A:: Installation Name: CNS/ATM A-Kit (All other)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	277	-	-	-	-	-	-	-	-	-	10	10	10	13	13	13	12	9	9	9	9	39	39	39	36	28	28	28	25	273	929
Out	277	-	-	-	-	-	-	-	-	-	10	10	10	13	13	13	12	9	9	9	9	39	39	39	36	28	28	28	25	273	929

Method of Implementation: T-38, NU-1B, U-6A, O-2A, UH-72A, UV-18A:: Installation Name: CNS/ATM A-Kit (T-38 and TPS)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	3 / 0.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.053
FY 2016	- / -	- / -	8 / 0.283	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.283
FY 2017	- / -	- / -	- / -	10 / 0.206	- / -	10 / 0.206	- / -	- / -	- / -	- / -	- / -	10 / 0.206
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	3 / 0.053	8 / 0.283	10 / 0.206	- / -	10 / 0.206	- / -	- / -	- / -	- / -	- / -	21 / 0.542

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	3	-	-	-	3	3	2	-	4	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
Out	-	-	3	-	-	-	3	3	2	-	4	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21

Method of Implementation (Organic): Installation Equipment - CNS/ATM Equip

Installation Quantity: 2722

Method of Implementation (Organic): Installation Equipment - CNS/ATM P-ILS

Installation Quantity: 713

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)

Modification Item 1 of 1: Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)

Installation Information

Method of Implementation (Organic): Installation Equipment N/R - Not Installed

Installation Quantity: 14

Footnotes:

- (2) Cost per quantity variation is due to variation in platforms, platform quantities, associated equipment per platform, and cost per equipment. ** B-Kit quantities differ from A-Kits where B-Kits consist of a card or module that will be integrated without A-Kit requirement. ** Installation Kit/Installation Equipment quantities reflect number of units procured, installation quantity reflects number of aircraft. ** Certifications are based on analysis and do not necessarily reflect integration. ** Production Lead Time is acceptable and does not impact induction of aircraft due to length of aircraft modification. ** To explain prior year delta, FY12 PMA209 procured (5) P-3A A-Kits, and PMA290 funded correlating installs. ** The A-Kit recurring growth in FY17-FY19 is due to MH-60R/S & MH-53E Required Navigation Performance Area Navigation (RNP RNAV) and H-1 Series and F/A 18 A+ to achieve Automatic Dependent Surveillance - Broadcast (Out) (ADS-B Out) compliance by January 1st, 2020 as mandated in Title 14 CFR Parts 91.225 and 91.227.
- (3) ** The growth in FY16 in A-Kit N/R is due to the ramp up of the RNP RNAV capability for the MH-53E platform and the ramp up of the ADS-B Out capability for multiple platforms.
- (4) ** FY15, PMA209 procured (100) F/A-18 A-D APX Mode S upgrade B-Kits, no A-Kit or install required for APX Mode S upgrade kits. ** FY16, PMA209 will procure (27) F/A-18 A-D APX Mode S upgrade A-Kits. ** FY17, PMA209 will procure (38) F/A-18 A-D APX Mode S upgrade B-Kits, no A-Kit or install required. ** FY18, PMA209 will procure (54) F/A-18 A-D APX Mode S upgrade B-Kits, no A-Kit or install required for APX Mode S upgrade kits. ** FY19, PMA209 will procure (26) F/A-18 A-D APX Mode S upgrade B-Kits, no A-Kit or install required for APX Mode S upgrade kits. ** The growth in FY16 - FY20 for recurring CNS/ATM B-Kits is due to MH-60R/S and MH-53E RNP/RNAV and to achieve ADS-B Out compliance by January 1st, 2020 as mandated in Title 14 CFR Parts 91.225 and 91.227.
- (5) ** The growth in FY18 in B-Kit N/R is to achieve ADS-B Out compliance by January 1st, 2020 as mandated in Title 14 CFR Parts 91.225 and 91.227.
- (6) ** Data effort is funded at the completion of integration efforts. ** The growth in FY17-FY19 in Data is to achieve ADS-B Out compliance by January 1st, 2020 as mandated in Title 14 CFR Parts 91.225 and 91.227.
- (7) ** The growth in FY17 - FY19 in Training is to achieve ADS-B Out compliance by January 1st, 2020 as mandated in Title 14 CFR Parts 91.225 and 91.227.
- (8) Other Support Cost Category 3.6 increased from FY16 to FY17 as a result of additional requirements on the following platforms; C-2A and E-2C for ADS-B Out, MH-53E for RNP/RNAV and MH-60R/S for ADS-B Out & RNP/RNAV. CNS/ATM added the following platforms that were not budgeted in FY16; MQ-8C for CNS/ATM capabilities to include RNP/RNAV, ADS-B Out, Reduced Vertical Separation Minimum (RVSM) and MQ-4C for CNS/ATM capabilities to include RNP/RNAV, ADS-B Out, 8.33kHz and Mode S. Requirements must comply with ADS-B (Out) Mandate by 01-January-2020 as mandated in Title 14 CFR parts 91.225 and 91.227.
- (9) All other aircraft excluding T-38, NU-1B, U-6A, O-2A, UH-72A, UV-18A
- (10) T-38, NU-1B, U-6A, O-2A, UH-72A, UV-18A

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes				Modification Number / Title: 3 / Aircrew Wireless Internal Communications System (AWICS) (OSIP 09-04)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	26.131	0.718	0.500	-	-	-	-	-	-	-	-	27.349
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	26.131	0.718	0.500	-	-	-	-	-	-	-	-	27.349
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	26.131	0.718	0.500	-	-	-	-	-	-	-	-	27.349
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Aircrew Wireless Internal Communications System (AWICS) is a safety generated program that provides a wireless Internal Communication System (ICS) capability to prevent aircrew/passenger entanglement with ICS long cords in the event of mishap and allows unimpeded movement throughout the aircraft. The priority for fielding is determined by the aircraft that are most likely to experience a long-cord entanglement scenario during a water ditching event. Long cord entanglement and subsequent drowning has been documented as a cause of death in various mishap investigations. The program will procure new and/or modify existing equipment for Naval aircraft as necessary to facilitate the elimination of the long cord danger while maintaining the aircraft's existing ICS capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: All planned installs are completed for AWICS Program. Installation Decision (Unencrypted) 3rd Quarter 2006.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 3 / Aircrew Wireless Internal Communications System (AWICS) (OSIP 09-04)

Models of Systems Affected: All A/C as directed by OPNAV	Modification Type: Common Avionics Modification	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: Aircrew Wireless Internal Communications System (AWICS) (OSIP 09-04)												
A Kits												
Recurring												
1.1.1) Installation Kits (A-Kits) - NonOrganic ⁽¹¹⁾	534 / 1.724	21 / 0.062	6 / 0.021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	561 / 1.807
Subtotal: Recurring	- / 1.724	- / 0.062	- / 0.021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.807
Non-Recurring												
1.2.1) Installation Kits N/R - Organic	- / 0.332	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.332
Subtotal: Non-Recurring	- / 0.332	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.332
B Kits												
Recurring												
2.1.1) AWICS Equip - Organic ⁽¹²⁾	545 / 6.038	- / -	2 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	547 / 6.038
Subtotal: Recurring	- / 6.038	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.038
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic	- / 1.605	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.605
Subtotal: Non-Recurring	- / 1.605	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.605
Subtotal: Aircrew Wireless Internal Communications System (AWICS) (OSIP 09-04)	1,079 / 9.699	21 / 0.062	8 / 0.021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,108 / 9.782
Subtotal: Procurement, All Modification Items	- / 9.699	- / 0.062	- / 0.021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.782

Support (All Modification Items)

3.1) Data	- / 0.206	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.206
3.3) Training Equipment	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100
3.4) Support Equipment	- / 0.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.289
3.5) ILS	- / 1.273	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.273
3.6) Other Support	- / 11.452	- / 0.620	- / 0.463	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.535
Subtotal: Support	- / 13.320	- / 0.620	- / 0.463	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.403

Installation

Modification Item 1 of 1: Aircrew Wireless Internal Communications System (AWICS) (OSIP 09-04)	- / 3.112	- / 0.036	- / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.164
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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 3 / Aircrew Wireless Internal Communications System (AWICS) (OSIP 09-04)

Models of Systems Affected: All A/C as directed by OPNAV	Modification Type: Common Avionics Modification	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Installation</i>	- / 3.112	- / 0.036	- / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.164
Total												
Total Cost (Procurement + Support + Installation)	26.131	0.718	0.500	-	-	-	-	-	-	-	-	27.349

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 3 / Aircrew Wireless Internal Communications System (AWICS) (OSIP 09-04)

Modification Item 1 of 1: Aircrew Wireless Internal Communications System (AWICS) (OSIP 09-04)

Manufacturer Information

Manufacturer Name: TBD ⁽¹³⁾				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 10			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015					
Delivery Dates	Mar 2015	Mar 2016					

Installation Information

Method of Implementation: Contractor or USN Field Mod Team:: Installation Name: Installation Kits (A-Kits)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	513 / 3.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	513 / 3.112
FY 2015	- / -	21 / 0.036	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.036
FY 2016	- / -	- / -	6 / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.016
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	513 / 3.112	21 / 0.036	6 / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	540 / 3.164

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	513	-	5	5	11	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	540
Out	513	-	5	5	11	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	540

Method of Implementation (Organic): AWICS Equip

Installation Quantity: 547

Footnotes:

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 3 / Aircrew Wireless Internal Communications System (AWICS) (OSIP 09-04)

⁽¹¹⁾ ******(18) Prior Year A-Kits (CH-53E and MV-22B) to be installed in FY13 were returned to Central Kitting Activity (CKA) and will not be installed. FY15, Per OPNAV N98's direction continuing unencrypted for the MH-60S for the AWICS. FY15-FY16 unit cost is exceeding the rate of inflation due to the A-kit quantity decreasing and the procurement of encrypted A-kits beginning in FY16 that cost more than unencrypted kits.

⁽¹²⁾ ****** FY14 (34), FY15 (21), FY16 (4) - (54) B-Kits provided by CKA for MH-60S Unencrypted. ****** FY16 MH-60S B-Kits are using kits at CKA, no funding required.

⁽¹³⁾ Administrative and Procurement lead time for Unencrypted A-Kits (MH-60S) from FY13 - FY16 is 6 months - A-Kits will be procured and installed in the same Fiscal Year (FY). All planned installs are completed for AWICS Program.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes				Modification Number / Title: 4 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	11.755	3.965	5.000	5.000	-	5.000	5.000	5.000	5.100	5.202	130.535	176.557
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	11.755	3.965	5.000	5.000	-	5.000	5.000	5.000	5.100	5.202	130.535	176.557
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	11.755	3.965	5.000	5.000	-	5.000	5.000	5.000	5.100	5.202	130.535	176.557
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Avionics Component Improvement Program (AvCIP) provides resources to address critical readiness, reliability deficiencies, obsolescence, loss of sustainability, and top fleet repair cost drivers in naval avionics systems. In the year prior to execution, candidate projects from all Type/Model/Series are collected, reviewed, competed and selected based upon proposal solution maturity, ability to execute, mission criticality and urgency, degree of readiness, impact on Fleet maintenance or repair cost burden, return on investment, and Fleet advocacy. AvCIP was established under the OSD Business Initiative Council as a better business practice to address cost-wise readiness in support of Naval Aviation Enterprise efficiency objectives. AvCIP is funded by both Research, Development Test & Evaluation, Navy, and Aircraft Procurement, Navy (APN), accounts to cover Non-Recurring Engineering (NRE) for design/development or re-design/modification, demonstrations, integration testing, prototype/lab asset development, qualification testing, engineering and logistics documentation and support services. APN funds will cover NRE to insert modern technology to address poor performance or obsolescence (that threatens to down aircraft), and support project modification component procurements, as required. Follow-on procurements tails will be coordinated with Program Offices and their Operational, Safety and Improvement Programs (OSIPs), as required. Candidate projects are submitted via a rigorous template, reviewed by a panel of Avionics professionals, and selected based upon urgency, warfighting contributions, breadth of application and scope of Return On Investment. Analysis shows that funding applied under this program will enable sustainment and procurement cost avoidances exceeding a five to one margin by 2025.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: AvCIP project selection criteria include proposed solution maturity and executability. Target project length to start fielding the solution is 12-18 months. Procurements below are representative of initial project lab asset purchases for qualification and production validation. Units may be transferred to Fleet platforms as operational assets. Future year specific development profiles/milestones will be dependent upon projects competed and selected. Multiple projects may be selected each year.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 4 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09)

Models of Systems Affected: All Aircraft as directed by OPNAV	Modification Type: Common Avionics Modification	Related RDT&E PEs: 0604215N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)												
B Kits												
Recurring												
2.1.1) AvCIP B-Kits - NonOrganic ⁽¹⁴⁾	8 / 4.477	2 / 1.002	12 / 2.098	12 / 2.098	- / -	12 / 2.098	12 / 2.098	12 / 2.098	12 / 2.198	12 / 2.212	138 / 44.485	220 / 62.766
<i>Subtotal: Recurring</i>	- / 4.477	- / 1.002	- / 2.098	- / 2.098	- / -	- / 2.098	- / 2.098	- / 2.098	- / 2.198	- / 2.212	- / 44.485	- / 62.766
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic ⁽¹⁵⁾	- / 2.689	- / -	- / 1.852	- / 1.752	- / -	- / 1.752	- / 1.752	- / 1.752	- / 1.752	- / 1.762	- / 62.616	- / 75.927
<i>Subtotal: Non-Recurring</i>	- / 2.689	- / -	- / 1.852	- / 1.752	- / -	- / 1.752	- / 1.752	- / 1.752	- / 1.752	- / 1.762	- / 62.616	- / 75.927
<i>Subtotal: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)</i>	8 / 7.166	2 / 1.002	12 / 3.950	12 / 3.850	- / -	12 / 3.850	12 / 3.850	12 / 3.850	12 / 3.950	12 / 3.974	138 / 107.101	220 / 138.693
<i>Subtotal: Procurement, All Modification Items</i>	- / 7.166	- / 1.002	- / 3.950	- / 3.850	- / -	- / 3.850	- / 3.850	- / 3.850	- / 3.950	- / 3.974	- / 107.101	- / 138.693

Support (All Modification Items)

3.3) ILS	- / 0.135	- / 0.360	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / 0.106	- / 5.105	- / 6.206
3.6) Other Support	- / 4.454	- / 2.203	- / 0.850	- / 0.450	- / -	- / 0.450	- / 0.450	- / 0.450	- / 0.450	- / 0.463	- / 12.588	- / 22.358
<i>Subtotal: Support</i>	- / 4.589	- / 2.563	- / 0.950	- / 0.550	- / -	- / 0.550	- / 0.550	- / 0.550	- / 0.550	- / 0.569	- / 17.693	- / 28.564

Installation

Modification Item 1 of 1: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)	- / 0.000	- / 0.400	- / 0.100	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.659	- / 5.741	- / 9.300
<i>Subtotal: Installation</i>	- / 0.000	- / 0.400	- / 0.100	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.659	- / 5.741	- / 9.300

Total												
Total Cost (Procurement + Support + Installation)	11.755	3.965	5.000	5.000	-	5.000	5.000	5.000	5.100	5.202	130.535	176.557

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 4 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09)

Modification Item 1 of 1: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 15

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020
Delivery Dates	Feb 2016	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021	Feb 2022

Installation Information

Method of Implementation: Equipment is provided to Platform PMA and installed as per airframe ECP/AFC:: Installation Name: AvC

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	8 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	8 / 0.400
FY 2015	- / -	- / -	2 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.100
FY 2016	- / -	- / -	- / -	12 / 0.600	- / -	12 / 0.600	- / -	- / -	- / -	- / -	- / -	12 / 0.600
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.600	- / -	- / -	- / -	- / -	12 / 0.600
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.600	- / -	- / -	- / -	12 / 0.600
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.600	- / -	- / -	12 / 0.600
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.659	- / -	12 / 0.659
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.666	12 / 0.666
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 5.075	138 / 5.075
Total	- / -	8 / 0.400	2 / 0.100	12 / 0.600	- / -	12 / 0.600	12 / 0.600	12 / 0.600	12 / 0.600	12 / 0.659	150 / 5.741	220 / 9.300

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	2	3	3	-	2	-	-	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	150	220
Out	-	-	2	3	3	-	2	-	-	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	150	220

Footnotes:

(14) There are no corresponding A-Kits associated with B-Kits. B-Kits and Installs are estimated based on engineering projections. Actual components to be determined during project selection in the year prior to execution, as outlined in project description/justification on P-3a.

(15) ** B-Kit/equipment modification funding is as follows: All T/M/S T/AV-8, C-2, H-53, E-2, E-6, EA-6B, FA-18, H-1, H-60, P-3, T-45, VH, MQ-8B/C modifications and Common Avionics Systems.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes				Modification Number / Title: 5 / Blue Force Situational Awareness (OSIP 10-11)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	51.538	-	12.188	-	-	-	-	-	-	-	-	63.726
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	51.538	-	12.188	-	-	-	-	-	-	-	-	63.726
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	51.538	-	12.188	-	-	-	-	-	-	-	-	63.726
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Blue Force Situational Awareness (BFSA) employs techniques to actively or passively identify and track United States, allied, or coalition forces for the purpose of providing the decision-maker enhanced battlespace situational awareness and reducing fratricide. The program, led by the Army with joint participation, upgrades legacy Force XXI Battle Command Brigade (FBCB) and Below Blue Force Tracking (BFT) systems to the configuration required to meet the Joint Battle Command-Platform (JBC-P) Capability Development Document and to add JBC-P capability to other aircraft as directed by Office of the Chief of Naval Operations, providing joint, interoperable, secure, beyond line of sight, near real time, battle command networking and BFSA in the cockpit and the command centers.

Aircraft supporting deployed Amphibious Readiness Group (ARG) and associated flight operations is satellite dependent and does not meet the mandate in Anti-Access Area Denial (A2AD) environments. The incorporation of Tactical Targeting Network Technology (TTNT) and Adaptive Networking Wideband Waveform (ANW2) ensures an alternate path for friendly force identification, increased battle space awareness and mission completion in A2AD environments. The Army migration away from the Electronic Data Manager display begins in 2017. Transition to the approved tablet eliminates any gap in capability for the display and dissemination of Position Location Information (PLI) and actionable information within the Marine Air Ground Task Force (MAGTF). Assets will remain forward and will rotate from returning to departing Marine Expeditionary Units (MEU's), ensuring readiness and agility to operate in satellite denied environments at all times. Requirement exists via Joint Requirements Oversight Council Memorandum (JROCM) 161-03 and 163-04 digital Beyond Line of Sight (BLOS) Blue Force Situational Awareness (BFSA).

The following requirement documents establish and validate the need for BFSA equipment and system installations: JBC-P Capability Development Document (CDD) and Joint Requirements Oversight Council (JROC) Decision Memorandum 098-08 dated 6 May 2008; United States Marine Corps (USMC) Universal Needs Statement # 092418 dated December 2010; USMC Universal Needs Statement # 06153UB dated May 2006; USMC Universal Needs Statement #04138UC dated 12 November 2003. All requirement documents discuss the need for an in theater OFS requirement for two way BFSA capability and the requirement to equip USMC aircraft with FBCB2/BFT while exploring an integrated solution for emerging aircraft such as the MV-22, CH-53K, UH-1Y, and AH-1Z.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 5 / Blue Force Situational Awareness (OSIP 10-11)

Models of Systems Affected: All Aircraft as directed by OPNAV		Modification Type: Common Avionics Modification		Related RDT&E PEs:	
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: Blue Force Situational Awareness (OSIP 10-11)												
A Kits												
Recurring												
1.1.1) BFSa Kit - NonOrganic	114 / 6.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	114 / 6.505
Subtotal: Recurring	- / 6.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.505
Non-Recurring												
1.2.1) Installation Kits N/R - Organic	- / 2.493	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.493
Subtotal: Non-Recurring	- / 2.493	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.493
B Kits												
Recurring												
2.1.1) BFSa Equip - Organic ⁽¹⁶⁾	145 / 11.027	- / -	588 / 1.672	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	733 / 12.699
Subtotal: Recurring	- / 11.027	- / -	- / 1.672	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.699
Non-Recurring												
2.2.1) Installation Equipment N/R - Organic ⁽¹⁷⁾	- / 6.322	- / -	- / 9.299	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.621
Subtotal: Non-Recurring	- / 6.322	- / -	- / 9.299	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.621
Subtotal: Blue Force Situational Awareness (OSIP 10-11)	259 / 26.347	- / -	588 / 10.971	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	847 / 37.318
Subtotal: Procurement, All Modification Items	- / 26.347	- / -	- / 10.971	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.318

Support (All Modification Items)

3.4) Support Equipment	- / 1.745	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.745
3.5) ILS	- / 1.768	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.968
3.6) Other Support	- / 15.210	- / -	- / 1.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.227
Subtotal: Support	- / 18.723	- / -	- / 1.217	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.940

Installation

Modification Item 1 of 1: Blue Force Situational Awareness (OSIP 10-11)	- / 6.468	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.468
Subtotal: Installation	- / 6.468	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.468

Total

Total												
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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 5 / Blue Force Situational Awareness (OSIP 10-11)

Models of Systems Affected: All Aircraft as directed by OPNAV	Modification Type: Common Avionics Modification	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	51.538	-	12.188	-	-	-	-	-	-	-	-	63.726

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 5 / Blue Force Situational Awareness (OSIP 10-11)

Modification Item 1 of 1: Blue Force Situational Awareness (OSIP 10-11)

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016					
Delivery Dates		Oct 2016					

Installation Information

Method of Implementation: Contractor or USN Field Modification Team:: Installation Name: BFSa Kit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	115 / 6.468	20 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	135 / 6.468
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	115 / 6.468	20 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	135 / 6.468

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	115	5	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135
Out	115	5	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135

Method of Implementation (Organic): BFSa Equip **Installation Quantity:** 733

Footnotes:
(16) **FY16 No associated A-Kits or Installs - B-Kit Procurement only.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 5 / Blue Force Situational Awareness (OSIP 10-11)

⁽¹⁷⁾ **The increase in B-Kit NRE from FY14 to FY16 is due to a COTS solution that requires modification to insert the Tactical Targeting Network Technology (TTNT) and Adaptive Networking Wideband Waveform (ANW2).

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes				Modification Number / Title: 6 / Military Flight Operations Quality Assurance (MFOQA) (OSIP 011-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.401	4.952	2.000	-	-	-	-	-	-	-	-	7.353
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.401	4.952	2.000	-	-	-	-	-	-	-	-	7.353
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.401	4.952	2.000	-	-	-	-	-	-	-	-	7.353
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Military Flight Operations Quality Assurance (MFOQA) improves safety, readiness and asset conservation by assessing aircrew and aircraft performance; improving maintenance, operations, safety and training across all Naval Aviation platforms as identified and prioritized by the Office of the Chief of Naval Operations. Efforts will include software upgrades of the MFOQA product to operate with additional platforms. Efforts will also include site activations to ensure software is loaded on Squadrons' ground/workstations and users are trained to operate the software. The MFOQA program is directed by an Office of the Secretary of Defense mandate October 2005 and a Secretary of the Navy mandate February 2006.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Analysis of Alternatives approved September 2005; Capability Development Document approved September 2006; Capability Production Document approved June 2014.

Milestone B 1st Qtr. FY07, Milestone C 2nd Qtr. FY14, Initial Operational Capability (IOC) 3rd Qtr. FY14.

Modifying baseline MFOQA software (90% reuse, 10% tailored to specific platform) for F/A-18. Software will be integrated on existing Fleet computers.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 6 / Military Flight Operations Quality Assurance (MFOQA) (OSIP 011-12)

Models of Systems Affected: All Aircraft as directed by OPNAV	Modification Type: Common Avionics Modification	Related RDT&E PEs: 0604215N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: Military Flight Operations Quality Assurance (MFOQA) (OSIP 011-12)</i>												
B Kits												
Recurring												
2.1.1) MFOQA Installation Equipment - NonOrganic ⁽¹⁸⁾	29 / 0.015	38 / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 0.031
<i>Subtotal: Recurring</i>	- / 0.015	- / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.031
Non-Recurring												
2.2.1) B-Kit Installation Equipment N/R - Organic	- / -	- / 0.364	- / 1.129	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.493
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / 0.364	- / 1.129	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.493
<i>Subtotal: Military Flight Operations Quality Assurance (MFOQA) (OSIP 011-12)</i>	29 / 0.015	38 / 0.380	- / 1.129	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 1.524
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.015	- / 0.380	- / 1.129	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.524
Support (All Modification Items)												
3.3) ILS	- / 0.306	- / 0.154	- / 0.172	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.632
3.6) Other Support	- / 0.075	- / 3.773	- / 0.699	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.547
<i>Subtotal: Support</i>	- / 0.381	- / 3.927	- / 0.871	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.179
Installation												
<i>Modification Item 1 of 1: Military Flight Operations Quality Assurance (MFOQA) (OSIP 011-12)</i>	- / 0.005	- / 0.645	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.650
<i>Subtotal: Installation</i>	- / 0.005	- / 0.645	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.650
Total												
Total Cost (Procurement + Support + Installation)	0.401	4.952	2.000	-	-	-	-	-	-	-	-	7.353

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 6 / Military Flight Operations Quality Assurance (MFOQA) (OSIP 011-12)

Modification Item 1 of 1: Military Flight Operations Quality Assurance (MFOQA) (OSIP 011-12)

Manufacturer Information							
Manufacturer Name: Government ⁽¹⁹⁾				Manufacturer Location: Patuxent River, MD			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 0			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014						
Delivery Dates	Nov 2014						

Installation Information
Method of Implementation: Contractor or USN Field Mod Team:: Installation Name: MFOQA Installation Equipment

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	29 / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	29 / 0.005
FY 2015	- / -	38 / 0.645	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.645
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	29 / 0.005	38 / 0.645	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 0.650

Installation Schedule																															
	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	29	9	9	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67
Out	29	9	9	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67

Footnotes:
(18) ** There are no corresponding A-Kits associated with B-Kits. ** B-Kits and install cost vary across platforms.
(19) Contract/Delivery dates are the same because Military Flight Operations Quality Assurance Software is pushed to the client members via Navy Marine Corps Intranet (NMCI). Procurements are delivered to squadrons at installation.

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 7 / Inactive OSIPs
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,008.692	-	-	-	-	-	-	-	-	-	-	1,008.692
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	1,008.692	-	-	-	-	-	-	-	-	-	-	1,008.692
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1,008.692	-	-	-	-	-	-	-	-	-	-	1,008.692
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0577 / Common Avionics Changes					Modification Number / Title: 7 / Inactive OSIPs			
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: N/A</i>													
<i>Subtotal: N/A</i>													
<i>Subtotal: Procurement, All Modification Items</i>													
Support (All Modification Items)													
<i>3.1) Inactive OSIPs</i>													
<i>Subtotal: Support</i>													
Installation													
<i>Subtotal: Installation</i>													
Total													
Total Cost (Procurement + Support + Installation)													

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 7 / Inactive OSIPs
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Modification Item 1 of 1: N/A

Manufacturer Information

Manufacturer Name: N/A Manufacturer Location: N/A

Administrative Leadtime (in Months): Production Leadtime (in Months):

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Support Only Installation **Installation Quantity:** 0

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	72.519	1.958	3.062	4.403	-	4.403	2.312	2.100	2.143	2.185	5.551	96.233
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	72.519	1.958	3.062	4.403	-	4.403	2.312	2.100	2.143	2.185	5.551	96.233
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	72.519	1.958	3.062	4.403	-	4.403	2.312	2.100	2.143	2.185	5.551	96.233

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Common Defensive Weapon System (CDWS) consists of a GAU-21 .50 caliber Machine Gun, cradle, ammo box, feed/link chutes and a platform specific mount system. For the MV-22 CDWS, which is in production, Ramp Mount Weapon Systems (RMWS) will be procured. For the UH-1Y Platform Defense Armament System (DAS) mounts were procured. For the CH-53D/E Platforms, which is out of production, window mounts and ramp mounts were procured. CDWS was procured to replace obsolete GAU-16 and XM-218 .50 caliber Machine Guns. CDWS enhances the warfighters overall capability by providing a safer, more reliable and accurate weapon system with a higher rate of fire.

Funding also supports the modification of medium caliber gun systems used on Navy/Marine Aircraft as well as modifications to crew served weapons including the 7.62mm and .50 cal machine guns currently used on Navy/Marine Helicopters. The modifications to the guns will increase safety and reliability.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0581 / Common Defensive Weapon System

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06) (MISSION/ MISSION ENHANCEMENT)			- / 62.883	- / 1.958	- / 3.062	- / 4.403	- / -	- / 4.403
P-3a	2 / INACTIVE OSIP/DAWDF Realignment (TBD)			- / 9.636	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 72.519	- / 1.958	- / 3.062	- / 4.403	- / -	- / 4.403

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06) (MISSION/ MISSION ENHANCEMENT)			- / 2.312	- / 2.100	- / 2.143	- / 2.185	- / 5.551	- / 86.597
P-3a	2 / INACTIVE OSIP/DAWDF Realignment (TBD)			- / -	- / -	- / -	- / -	- / -	- / 9.636
P-40	Total Gross/Weapon System Cost			- / 2.312	- / 2.100	- / 2.143	- / 2.185	- / 5.551	- / 96.233

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2016 funding will procure 41 modified RMWS for the MV-22 aircraft.
 FY 2017 funding will procure 60 modified RMWS for the MV-22 aircraft.
 FY 2018 funding will procure 31 modified RMWS for the MV-22 aircraft.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System				Modification Number / Title: 1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	62.883	1.958	3.062	4.403	-	4.403	2.312	2.100	2.143	2.185	5.551	86.597
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	62.883	1.958	3.062	4.403	-	4.403	2.312	2.100	2.143	2.185	5.551	86.597
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	62.883	1.958	3.062	4.403	-	4.403	2.312	2.100	2.143	2.185	5.551	86.597
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The Common Defensive Weapon System (CDWS) consists of a GAU-21 .50 caliber Machine Gun, cradle, ammo box, feed/link chutes and a platform specific mount system. For the MV-22 CDWS, which is production, Ramp Mount Weapon Systems (RMWS) will be procured. For the UH-1Y Platform Defense Armament System (DAS) mounts were procured. For the CH-53D/E Platforms, which is out of production, window mounts and ramp mounts were procured. CDWS was procured to replace obsolete GAU-16 and XM-218 .50 caliber Machine Guns. CDWS enhances the warfighters overall capability by providing a safer, more reliable and accurate weapon system with a higher rate of fire.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System					Modification Number / Title: 1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)			
Models of Systems Affected: CH-53D/E, UH-1Y, MV-22				Modification Type: MISSION/MISSION ENHANCEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)</i>													
A Kits													
Recurring													
1.1.1) MV-22 - Organic	49 / 6.011	26 / 1.733	41 / 2.743	60 / 3.993	- / -	60 / 3.993	31 / 2.138	26 / 1.885	26 / 1.925	26 / 1.963	78 / 4.905	363 / 27.296	
1.1.2) Archived Mods - Organic	752 / 43.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	752 / 43.200	
<i>Subtotal: Recurring</i>	<i>- / 49.211</i>	<i>- / 1.733</i>	<i>- / 2.743</i>	<i>- / 3.993</i>	<i>- / -</i>	<i>- / 3.993</i>	<i>- / 2.138</i>	<i>- / 1.885</i>	<i>- / 1.925</i>	<i>- / 1.963</i>	<i>- / 4.905</i>	<i>- / 70.496</i>	
B Kits													
Recurring													
2.1.1) CH-53D/E - Organic	415 / 6.659	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	415 / 6.659	
<i>Subtotal: Recurring</i>	<i>- / 6.659</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 6.659</i>	
<i>Subtotal: COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)</i>	<i>1,216 / 55.870</i>	<i>26 / 1.733</i>	<i>41 / 2.743</i>	<i>60 / 3.993</i>	<i>- / -</i>	<i>60 / 3.993</i>	<i>31 / 2.138</i>	<i>26 / 1.885</i>	<i>26 / 1.925</i>	<i>26 / 1.963</i>	<i>78 / 4.905</i>	<i>1,530 / 77.155</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 55.870</i>	<i>- / 1.733</i>	<i>- / 2.743</i>	<i>- / 3.993</i>	<i>- / -</i>	<i>- / 3.993</i>	<i>- / 2.138</i>	<i>- / 1.885</i>	<i>- / 1.925</i>	<i>- / 1.963</i>	<i>- / 4.905</i>	<i>- / 77.155</i>	
Support (All Modification Items)													
3.1) Data	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	
3.2) Support Equipment	- / 11.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.700	
3.3) ILS	- / 12.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.000	
3.4) Other Support	- / 12.913	- / 0.225	- / 0.319	- / 0.410	- / -	- / 0.410	- / 0.174	- / 0.215	- / 0.218	- / 0.222	- / 0.646	- / 15.342	
<i>Subtotal: Support</i>	<i>- / 17.013</i>	<i>- / 0.225</i>	<i>- / 0.319</i>	<i>- / 0.410</i>	<i>- / -</i>	<i>- / 0.410</i>	<i>- / 0.174</i>	<i>- / 0.215</i>	<i>- / 0.218</i>	<i>- / 0.222</i>	<i>- / 0.646</i>	<i>- / 19.442</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	62.883	1.958	3.062	4.403	-	4.403	2.312	2.100	2.143	2.185	5.551	86.597	

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System				Modification Number / Title: 2 / INACTIVE OSIP/DAWDF Realignment				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.636	-	-	-	-	-	-	-	-	-	-	9.636
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.636	-	-	-	-	-	-	-	-	-	-	9.636
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.636	-	-	-	-	-	-	-	-	-	-	9.636
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System	Modification Number / Title: 2 / INACTIVE OSIP/DAWDF Realignment

Models of Systems Affected: [No Model Specified]	Modification Type: TBD	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> INACTIVE OSIP/DAWDF Realignment												
B Kits												
Non-Recurring												
1.1.1) Inactive OSIP/DAWDF Realignment - Organic	- / 9.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.636
<i>Subtotal: Non-Recurring</i>	- / 9.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.636
<i>Subtotal: INACTIVE OSIP/DAWDF Realignment</i>	- / 9.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.636
<i>Subtotal: Procurement, All Modification Items</i>	- / 9.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.636
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	9.636	-	-	-	-	-	-	-	-	-	-	9.636

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System	Modification Number / Title: 2 / INACTIVE OSIP/DAWDF Realignment

Modification Item 1 of 1: INACTIVE OSIP/DAWDF Realignment

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0582 / ID Sys
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	190.744	38.880	41.063	45.768	-	45.768	49.374	46.199	47.146	48.112	54.756	562.042
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	190.744	38.880	41.063	45.768	-	45.768	49.374	46.199	47.146	48.112	54.756	562.042
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	190.744	38.880	41.063	45.768	-	45.768	49.374	46.199	47.146	48.112	54.756	562.042

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in ID SYS by \$1.927M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

MARK (MK) XIIA Mode 5 provides improved secure cooperative combat identification via the Identification Friend or Foe (IFF) system. Mode 5 compatibility is part of the Combat Identification Family of Systems strategy employed by US and North Atlantic Treaty Organization/Allied forces and will improve situational awareness, reduce fratricide, reduce enemy disruption of IFF functions and ensure the safe return of friendly aircraft. The DoD implementation is governed by AIMS 03-1000A and USN requirements defined in ORD # 577-06-01 and is designed to be compatible with civilian IFF modes to ensure interoperability of military and civilian aircraft. Mode 5 is a product improvement which is designed to be installed through engineering changes to digital MARK XII IFF Systems (interrogators and transponders) and their associated cryptographic material.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0582 / ID Sys

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Mark XIIA Mode 5 IFF (OSIP 15-03) (Capability Improvement)			- / 190.744	- / 38.880	- / 41.063	- / 45.768	- / -	- / 45.768
P-40	Total Gross/Weapon System Cost			- / 190.744	- / 38.880	- / 41.063	- / 45.768	- / -	- / 45.768

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Mark XIIA Mode 5 IFF (OSIP 15-03) (Capability Improvement)			- / 49.374	- / 46.199	- / 47.146	- / 48.112	- / 54.756	- / 562.042
P-40	Total Gross/Weapon System Cost			- / 49.374	- / 46.199	- / 47.146	- / 48.112	- / 54.756	- / 562.042

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
Joint Requirements Oversight Council Memorandums (047-07 and 122-08) endorsed a Mode 5 Joint Full Operational Capability in 2020. Navy Initial Operational Capability was achieved in FY12. NSA declared Identification Friend or Foe Mode 4 will not be supported after 2020. Mode 5 provides added security and more data transmissions than Mode 4. Additionally, Mode 5 will use a spread spectrum waveform, which reduces susceptibility to interference.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0582 / ID Sys				Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	190.744	38.880	41.063	45.768	-	45.768	49.374	46.199	47.146	48.112	54.756	562.042
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	190.744	38.880	41.063	45.768	-	45.768	49.374	46.199	47.146	48.112	54.756	562.042
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	190.744	38.880	41.063	45.768	-	45.768	49.374	46.199	47.146	48.112	54.756	562.042
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: MK XIIA Mode 5 provides improved secure cooperative combat identification via Identification Friend or Foe (IFF). Mode 5 compatibility is part of the Combat Identification Family of Systems strategy employed by US and North Atlantic Treaty Organization (NATO)/Allied forces and will improve situational awareness, reduce fratricide, reduce enemy disruption of IFF functions and ensure the safe return of friendly aircraft. The DoD implementation is governed by AIMS 03-1000A and USN requirements defined in ORD # 577-06-01 and is designed to be compatible with civilian IFF modes to ensure interoperability of military and civilian aircraft. Mode 5 upgrades existing Mode 4 IFF equipment, including cryptography, support equipment, and associated hardware and software changes. Mode 5 is designed to be installed through engineering changes to digital MARK XII interrogators and transponders and their associated cryptographic material including, but not limited to the AN/APX-118/123/123A, AN/UPX-37/41C, AN/APX-111, and AN/APX-119. Joint Requirements Oversight Council Memorandums (047-07 and 122-08) endorsed a Joint Full Operational Capability (JFOC) in 2020. Navy IOC was achieved in FY12. Mode 5 will be installed in Navy/Marine Corp/Coast Guard Type/Model/Series aircraft which are currently Mode 4 IFF capable with retrofit phasing to support JFOC.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Mode 5 completed a brassboard development in December 1997. Modeling and simulation to demonstrate interoperability was completed in February 1998 to support NATO Standardization Agreement (STANAG) development. Proof of concept flight testing completed in December 1999. Milestone B was completed in March 2003. Milestone C and Low Rate Initial Production was approved in July 2006. Full Rate Production (FRP) was approved July 2012. FRP procurements and Mode 5 Engineering Change Proposals on Navy/Marine Corp aircraft continue as the program continues towards JFOC in 2020.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0582 / ID Sys					Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)			
Models of Systems Affected: Various (49 Separate T / M/S)					Modification Type: Capability Improvement					Related RDT&E PEs: 0604777N			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Mark XIIA Mode 5 IFF (OSIP 15-03)</i>													
A Kits													
Recurring													
1.1.1) Mode 5 IFF NonOrganic - NonOrganic ⁽¹⁾	293 / 2.116	85 / 1.065	52 / 0.719	32 / 0.373	- / -	32 / 0.373	65 / 0.509	30 / 0.242	31 / 0.161	12 / 0.067	- / -	600 / 5.252	
<i>Subtotal: Recurring</i>	- / 2.116	- / 1.065	- / 0.719	- / 0.373	- / -	- / 0.373	- / 0.509	- / 0.242	- / 0.161	- / 0.067	- / -	- / 5.252	
B Kits													
Recurring													
2.1.1) Mode 5 IFF - NonOrganic ⁽²⁾	1,249 / 52.876	204 / 8.665	203 / 11.278	258 / 14.855	- / -	258 / 14.855	385 / 27.040	418 / 24.143	79 / 7.022	84 / 7.408	195 / 14.572	3,075 / 167.859	
<i>Subtotal: Recurring</i>	- / 52.876	- / 8.665	- / 11.278	- / 14.855	- / -	- / 14.855	- / 27.040	- / 24.143	- / 7.022	- / 7.408	- / 14.572	- / 167.859	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽³⁾	- / 60.315	- / 13.627	- / 16.771	- / 17.328	- / -	- / 17.328	- / 5.349	- / 9.022	- / 17.901	- / 14.634	- / 8.461	- / 163.408	
<i>Subtotal: Non-Recurring</i>	- / 60.315	- / 13.627	- / 16.771	- / 17.328	- / -	- / 17.328	- / 5.349	- / 9.022	- / 17.901	- / 14.634	- / 8.461	- / 163.408	
<i>Subtotal: Mark XIIA Mode 5 IFF (OSIP 15-03)</i>	1,542 / 115.307	289 / 23.357	255 / 28.768	290 / 32.556	- / -	290 / 32.556	450 / 32.898	448 / 33.407	110 / 25.084	96 / 22.109	195 / 23.033	3,675 / 336.519	
<i>Subtotal: Procurement, All Modification Items</i>	- / 115.307	- / 23.357	- / 28.768	- / 32.556	- / -	- / 32.556	- / 32.898	- / 33.407	- / 25.084	- / 22.109	- / 23.033	- / 336.519	
Support (All Modification Items)													
3.1) Data ⁽⁴⁾	- / 1.393	- / 0.430	- / 0.370	- / 0.345	- / -	- / 0.345	- / 0.590	- / 0.500	- / 0.174	- / 0.288	- / 0.300	- / 4.390	
3.2) Training Equipment ⁽⁵⁾	- / 3.375	- / 0.955	- / 0.774	- / 2.027	- / -	- / 2.027	- / 1.057	- / 0.895	- / 2.756	- / 0.534	- / 0.931	- / 13.304	
3.3) Support Equipment	- / 17.627	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.045	- / 1.489	- / 4.618	- / 25.779	
3.4) ILS	- / 16.956	- / 2.198	- / 2.176	- / 11.650	- / -	- / 11.650	- / 2.219	- / 1.730	- / 1.259	- / 0.930	- / 1.362	- / 20.480	
3.5) Other Support ⁽⁶⁾	- / 143.649	- / 9.995	- / 17.090	- / 17.011	- / -	- / 17.011	- / 10.668	- / 8.608	- / 14.216	- / 22.275	- / 24.300	- / 147.812	
<i>Subtotal: Support</i>	- / 73.000	- / 13.578	- / 10.410	- / 11.033	- / -	- / 11.033	- / 14.534	- / 11.733	- / 20.450	- / 25.516	- / 31.511	- / 211.765	
Installation													
<i>Modification Item 1 of 1: Mark XIIA Mode 5 IFF (OSIP 15-03)</i>	- / 2.437	- / 1.945	- / 1.885	- / 2.179	- / -	- / 2.179	- / 1.942	- / 1.059	- / 1.612	- / 0.487	- / 0.212	- / 13.758	
<i>Subtotal: Installation</i>	- / 2.437	- / 1.945	- / 1.885	- / 2.179	- / -	- / 2.179	- / 1.942	- / 1.059	- / 1.612	- / 0.487	- / 0.212	- / 13.758	
Total													
Total Cost (Procurement + Support + Installation)	190.744	38.880	41.063	45.768	-	45.768	49.374	46.199	47.146	48.112	54.756	562.042	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0582 / ID Sys	Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)

Modification Item 1 of 1: Mark XIIA Mode 5 IFF (OSIP 15-03)

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: Greenlawn, NY
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016				
Delivery Dates	Dec 2015	Dec 2016	Dec 2017				

Installation Information

Method of Implementation: Field Installs Kits and Vendor Depot ECP Install:: Installation Name: Mark XIIA Mode 5 IFF

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1,290 / 2.437	252 / 1.945	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	1,542 / 4.382
FY 2015	- / -	- / -	289 / 1.885	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	289 / 1.885
FY 2016	- / -	- / -	- / -	255 / 2.179	- / -	255 / 2.179	- / -	- / -	- / -	- / -	- / -	255 / 2.179
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	290 / 1.942	- / -	- / -	- / -	- / -	290 / 1.942
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	450 / 1.059	- / -	- / -	- / -	450 / 1.059
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	448 / 1.612	- / -	- / -	448 / 1.612
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 0.487	- / -	110 / 0.487
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	96 / 0.112	96 / 0.112
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	195 / 0.100	195 / 0.100
Total	1,290 / 2.437	252 / 1.945	289 / 1.885	255 / 2.179	- / -	255 / 2.179	290 / 1.942	450 / 1.059	448 / 1.612	110 / 0.487	291 / 0.212	3,675 / 13.758

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1,290	62	63	63	64	72	72	72	73	57	57	72	69	76	76	75	63	121	110	110	109	112	112	112	112	28	28	28	26	291	3,675
Out	1,290	62	63	63	64	72	72	72	73	57	57	72	69	76	76	75	63	121	110	110	109	112	112	112	112	28	28	28	26	291	3,675

Footnotes:

(1) A-Kit Recurring unit prices vary from platform-to-platform based on the complexity of the implementation required to achieve the Mode 5 capability. Mode 5 IFF A-Kits will be required for installation on the AV-8B, C-130T, C-20, C-37, C-40, CH-53E, E-6B, F/A-18A+/C/D, KC-130T, MH-53E, and UC-35 platforms, along with the "B" kits. A-Kit applicability and phasing changes are due to refinement in platform requirements and complexity of integration. Many other platforms will only require "B" kits (e.g. Mode 5 upgrade of AN/APX-118 to AN/APX-123A is a form, fit replacement in the aircraft). Installation costs vary by platform based on the implementation required to achieve the Mode 5 capability.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0582 / ID Sys	Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)

(2) B-Kit Recurring unit cost varies based on what equipment is procured in each year. Installation costs vary by platform based on the implementation required to achieve the Mode 5 capability. The B-Kit solution varies (box or modification kit) from platform-to-platform based on the implementation required to achieve the Mode 5 capability, resulting in an AN/APX-123/123A, AN/APX-111, or AN/APX-119. The AN/APX-111 CIT Mode 5 Kit and the AN/APX-119 Mode 5 Kit unit cost are more than three times the cost of the AN/APX-123A Mode 5 kit. That complexity also drives higher integration and install costs. AN/APX-123/123A boxes/kits have been procured and will continue throughout the program. Procurement of the F/A-18 AN/APX-111 Receiver-Transmitter (R/T) Shop Replaceable Assembly (SRA), required to address Mode 5 transponder performance issues, is now included in the Mode 5 kit procurement. AN/APX-111 box/kit procurements started in FY13. AN/APX-119 box/kit procurements start in FY15. B-kit total quantity has increased as platform requirements have changed. In addition to providing Mode 5, the systems will provide Mode S capability. PMA213 works closely with PMA209, who provides Mode S capability for platforms. To achieve full fielding of both the Mode 5 and Mode S capabilities, both PMA213 and PMA209 Budget Line Items (BLIs) integrate and install end items that are required to meet the full platform installation requirements. Prior Year Installs have been updated for actuals.

(3) B-Kit Non-Recurring increase from FY15 and FY16 to address Mode 5 transponder performance issues with the F/A-18 AN/APX-111 Receiver-Transmitter (R/T) Shop Replacement Assembly (SRA). B-kit NRE for this effort is required for full Mode 5 transponder functionality and intra-service interoperability. Some platform ECPs are more complex than others so the B-Kit Non-Recurring is based on the specific platform implementation. Out year increases are due to the delays in the Non-Recurring efforts for C-20, C-37 and C-40 platforms due to reprioritization of AV-8B.

(4) Data Costs are estimated based on platform requirements and phasing and increase as more platforms execute Mode 5 upgrades in a given year.

(5) Training costs are estimated based on platform requirements, e.g. operational and/or maintenance, and phased according to the platform schedule. For example, the increase in FY17 accounts for both operational and maintenance trainer upgrades for incorporation of the AN/APX-123/123A in AV-8B.

(6) Other Support costs are estimated based on the platform requirements and phasing and increase as more platforms execute Mode 5 upgrades in a given year.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0586 / P-8 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	12.484	29.797	28.092	18.836	-	18.836	18.642	206.008	198.574	202.575	2,077.980	2,792.988
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	12.484	29.797	28.092	18.836	-	18.836	18.642	206.008	198.574	202.575	2,077.980	2,792.988
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	12.484	29.797	28.092	18.836	-	18.836	18.642	206.008	198.574	202.575	2,077.980	2,792.988

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Decrease in P-8 SERIES by \$0.799M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

The FY 2017 funding request was reduced by \$0.680M to account for the availability of prior year execution balances.

The P-8A is a commercial Boeing 737 derivative that provides Broad Area Maritime and Littoral Armed multi-mission support. The P-8A Multi-mission Maritime Aircraft (MMA) will replace the P-3 aircraft. OSIP 026-12 funds correction of deficiencies, TACMOBILE, High Altitude Anti-Submarine Warfare (ASW) the retrofit of future P-8A mission system/avionics as developed under P-8A sequential increment programs, and the modernization to the P-8 aircraft. Increment 2 Engineering Change Proposal (ECP) 1 includes Early Multi-Static Active Coherent Capability. Increment 2 ECP 2 includes upgrades to the Automatic Identification System (AIS), Full Multi-Static Active Coherent Capability, Acoustic Processor Tech Refresh and includes upgrades to High Altitude Anti-Submarine Warfare Weapon Capability. ECP 3 includes upgrades to High Altitude Anti-Submarine Warfare Weapon Capability (HAAWC), Full Multi-Static Active Coherent, HAAWC Mid-Course guidance, and NEW Link-16 message implementation. This OSIP also includes modification to improve aircrew safety, supports changes in engines, weapons and stores requirements, sonobuoy launch system improvements, incorporates structural enhancements to enable the airframe to reach its designed/extended service life, Comms system improvement and sensor enhancement. The P-8A Mission Systems Upgrade program (OSIP 006-18) will ensure that the P-8A continues to meet the Navy's requirement to perform Anti-Submarine Warfare (ASW) and Anti-Surface Warfare (ASuW) and ISR Sea Control objectives by upgrading P-8A hardware, software, and firmware mission systems components. OSIP 006-18 funds P-8A Increment 3 and other Mission Systems improvements identified as fleet prioritized mission system enhancements or as a part of the Rapid Capability Insertion (RCI) process. The Increment 3 program consists of sequential incremental enhancements to system capabilities that will retain cost-wise effectiveness for major combat operations. Increment 3 includes upgrades to P-8A systems including Combat System architecture improvements, ASW and ASuW sensor improvements, communication capability upgrades, ASuW Net enabled Weapon (NEW), Higher -Than-Secret (HTS) security capability, and High Altitude ASW Weapons Capability (HAAWC) datalink. OSIP 002-15 funds Chief of Naval Operations Project K-0416 program which provides a rapid response ASW intelligence collection, analysis, and reporting system program. The P-8A Aircraft Systems Upgrade Program (OSIP 001-19) will ensure that the P-8A incorporates modifications to improve aircrew safety, supports changes in engines, weapons and stores requirements, sonobuoy launch system improvements and incorporates structural enhancements to enable the airframe to reach its designed/extended service life.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0586 / P-8 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12) (Mission Capabilities)			- / 12.484	- / 28.197	- / 26.492	- / 16.836	- / -	- / 16.836
P-3a	2 / CNO Project K-0416 (OSIP 002-15) (Operational Improvement)			- / 0.000	- / 1.600	- / 1.600	- / 2.000	- / -	- / 2.000
P-3a	3 / P-8A Mission Systems RCI (OSIP 006-18) (TBD)			- / 0.000	- / -	- / -	- / -	- / -	- / -
P-3a	4 / P-8 Aircraft Systems (OSIP 001-19) (TBD)			- / 0.000	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 12.484	- / 29.797	- / 28.092	- / 18.836	- / -	- / 18.836

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12) (Mission Capabilities)			- / 10.642	- / 13.672	- / 11.288	- / 6.834	- / 72.010	- / 198.455
P-3a	2 / CNO Project K-0416 (OSIP 002-15) (Operational Improvement)			- / 2.000	- / 2.000	- / 2.000	- / 2.000	- / 2.000	- / 15.200
P-3a	3 / P-8A Mission Systems RCI (OSIP 006-18) (TBD)			- / 6.000	- / 187.900	- / 182.810	- / 190.043	- / 2,003.970	- / 2,570.723
P-3a	4 / P-8 Aircraft Systems (OSIP 001-19) (TBD)			- / -	- / 2.436	- / 2.476	- / 3.698	- / -	- / 8.610
P-40	Total Gross/Weapon System Cost			- / 18.642	- / 206.008	- / 198.574	- / 202.575	- / 2,077.980	- / 2,792.988

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
FY 17 funds are for the retrofit of changes related to safety, modernization, obsolescence, and readiness/life cycle cost improvements. Program is currently budgeted to procure a total of 109 aircraft.

Procurements and installs are based on Aircraft and Trainer availability.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	12.484	28.197	26.492	16.836	-	16.836	10.642	13.672	11.288	6.834	72.010	198.455
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	12.484	28.197	26.492	16.836	-	16.836	10.642	13.672	11.288	6.834	72.010	198.455
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	12.484	28.197	26.492	16.836	-	16.836	10.642	13.672	11.288	6.834	72.010	198.455
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The P-8A is a commercial Boeing 737 derivative that provides Broad Area Maritime and Littoral Armed multi-mission support. The P-8A Multi-mission Maritime Aircraft (MMA) will replace the P-3 aircraft. OSIP 026-12 funds correction of deficiencies, obsolescence, TACMOBILE, High Altitude Anti-Submarine Warfare (ASW) the retrofit of future P-8A mission system/avionics as developed under P-8A sequential increment programs, and the modernization to the P-8 aircraft. This OSIP funds hardware, software and Tactical Operations Center (TOC) and Mobile Tactical Operation Center (MTOC) improvements. Increment 2 Engineering Change Proposal (ECP) 1 includes Early Multi-Static Active Coherent Capability. Increment 2 ECP 2 includes upgrades to the Automatic Identification System (AIS), Full Multi-Static Active Coherent Capability, Acoustic Processor Tech Refresh and includes upgrades to High Altitude Anti-Submarine Warfare Weapon Capability. ECP 3 includes upgrades to High Altitude Anti-Submarine Warfare Weapon Capability (HAAWC), Full Multi-Static Active Coherent, Net Enabled Weapons (NEW), HAAWC Mid-Course guidance, and NEW Link-16 message implementation. This OSIP also includes modification to improve aircrew safety, supports changes in engines, weapons and stores requirements, sonobouy launch system, which includes both Sonobouy Single Launcher (SSL) and Sonobouy Rotary Launcher (SRL) improvements, Secure Network Server (SNS) and incorporates structural enhancements to enable the airframe to reach its designed/extended service life and Comms system and sensor enhancements. These changes can be either airframe, avionic, or procedures. The correction of deficiencies includes software correction of deficiency Fleet Releases, 5.5KW Weapons Bay Heater, Radar, 64 Bit/Fortigate, MFDAU/IFFI, SNS, commercial service bulletins, modification to reduce life cycle cost and other deficiencies that may be identified.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The P-8 Baseline program achieved Milestone (MS)-C in FY10.
 Note: Modernization and Safety consist of various A and B Kits valued at under \$150K, therefore the ratio of A to B Kits is not always consistent.
 Note: Increment 2 ECP 2 trainers are software modification only. No hardware installation required.
 Note: The Corrections of Deficiencies include the productionization of test aircraft that will be returned to the fleet.
 Note: Correction of Deficiencies Kits have been relabeled to Modernization and Safety.

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Exhibit P-3a, Individual Modification: PB 2017 Navy								Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)					
Models of Systems Affected: P-8A MMA				Modification Type: Mission Capabilities				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)</i>													
A Kits													
Recurring													
1.1.1) Modernization and Safety - NonOrganic ⁽¹⁾	- / -	- / -	- / -	30 / 0.515	- / -	30 / 0.515	29 / 0.112	24 / 0.090	9 / 0.010	9 / 0.010	- / -	101 / 0.737	
1.1.2) Increment 2 ECP 2 A Kit - NonOrganic	- / -	21 / 3.150	16 / 2.041	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 5.191	
1.1.3) Increment 2 ECP 2 (Weapons Provision) - NonOrganic	- / -	- / -	19 / 0.400	19 / 0.400	- / -	19 / 0.400	15 / 0.321	- / -	- / -	- / -	- / -	53 / 1.121	
1.1.4) SSL/ SRL - NonOrganic	- / -	- / -	- / -	5 / 1.240	- / -	5 / 1.240	5 / 1.262	5 / 1.285	11 / 2.871	1 / 0.266	27 / 7.182	54 / 14.106	
1.1.5) SNS - Organic ⁽²⁾	- / -	- / -	- / -	45 / 0.900	- / -	45 / 0.900	10 / 0.204	5 / 0.104	- / -	- / -	- / -	60 / 1.208	
1.1.6) Airframe MOD - NonOrganic	- / -	- / -	- / -	6 / 0.120	- / -	6 / 0.120	6 / 0.105	8 / 0.166	5 / 0.105	5 / 0.107	- / -	30 / 0.603	
Subtotal: Recurring	- / 0.000	- / 3.150	- / 2.441	- / 3.175	- / -	- / 3.175	- / 2.004	- / 1.645	- / 2.986	- / 0.383	- / 7.182	- / 22.966	
B Kits													
Recurring													
2.1.1) Modernization and Safety - NonOrganic ⁽³⁾	- / 2.108	- / 6.419	53 / 6.288	7 / 0.100	- / -	7 / 0.100	16 / 0.141	16 / 0.141	16 / 0.154	16 / 0.154	- / -	124 / 15.505	
2.1.2) Acoustics Processor Tech Refresh/Insertion - Organic ⁽⁴⁾	6 / 2.754	- / -	- / -	36 / 3.600	- / -	36 / 3.600	10 / 1.018	21 / 2.176	- / -	- / -	- / -	73 / 9.548	
2.1.3) Increment 2 ECP 1 B Kit - Organic	13 / 1.794	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 1.794	
2.1.4) Increment 2 ECP 2 B Kit - Organic	- / -	21 / 9.450	16 / 7.322	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 16.772	
2.1.5) Airframe MOD - NonOrganic	- / -	- / -	- / -	6 / 0.300	- / -	6 / 0.300	6 / 0.305	8 / 0.415	5 / 0.264	5 / 0.268	- / -	30 / 1.552	
2.1.6) Engine Coating - NonOrganic	- / -	- / -	- / -	3 / 0.075	- / -	3 / 0.075	9 / 0.229	11 / 0.285	6 / 0.158	9 / 0.242	82 / 22.848	120 / 23.837	
2.1.7) Air Compressor Shroud - NonOrganic	- / -	- / -	- / -	2 / 0.074	- / -	2 / 0.074	9 / 0.339	12 / 0.460	7 / 0.273	13 / 0.517	25 / 1.025	68 / 2.688	
2.1.8) SSL/ SRL - NonOrganic ⁽⁵⁾	- / -	- / -	- / -	5 / 0.550	- / -	5 / 0.550	5 / 0.560	5 / 0.570	11 / 1.277	1 / 0.118	27 / 3.186	54 / 6.261	
2.1.9) SNS - Organic	- / -	- / -	- / -	45 / 0.338	- / -	45 / 0.338	10 / 0.076	5 / 0.039	- / -	- / -	- / -	60 / 0.453	
Subtotal: Recurring	- / 6.656	- / 15.869	- / 13.610	- / 5.037	- / -	- / 5.037	- / 2.668	- / 4.086	- / 2.126	- / 1.299	- / 27.059	- / 78.410	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 1.411	- / 0.603	- / -	- / 0.713	- / -	- / 0.713	- / -	- / -	- / -	- / -	- / -	- / 2.727	
Subtotal: Non-Recurring	- / 1.411	- / 0.603	- / -	- / 0.713	- / -	- / 0.713	- / -	- / -	- / -	- / -	- / -	- / 2.727	
Subtotal: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)	19 / 8.067	42 / 19.622	104 / 16.051	209 / 8.925	- / -	209 / 8.925	130 / 4.672	120 / 5.731	70 / 5.112	59 / 1.682	161 / 34.241	914 / 104.103	
Subtotal: Procurement, All Modification Items	- / 8.067	- / 19.622	- / 16.051	- / 8.925	- / -	- / 8.925	- / 4.672	- / 5.731	- / 5.112	- / 1.682	- / 34.241	- / 104.103	
Support (All Modification Items)													

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Models of Systems Affected: P-8A MMA	Modification Type: Mission Capabilities	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.2) Data	- / -	- / 0.714	- / 0.725	- / 0.313	- / -	- / 0.313	- / 0.200	- / 0.162	- / 0.100	- / 0.074	- / -	- / 2.288
3.3) APTR Training Equipment	9 / 3.989	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 3.989
3.4) Increment 2 ECP 2 Trainers ⁽⁶⁾	- / -	12 / 4.800	3 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 6.000
3.6) ILS	- / -	- / 0.225	- / 0.355	- / 0.361	- / -	- / 0.361	- / 0.309	- / 0.283	- / 0.200	- / 0.109	- / -	- / 1.842
3.7) Other Support	- / 0.428	- / 2.836	- / 2.911	- / 0.931	- / -	- / 0.931	- / 0.867	- / 0.894	- / 0.859	- / 0.950	- / -	- / 10.676
Subtotal: Support	- / 4.417	- / 8.575	- / 5.191	- / 1.605	- / -	- / 1.605	- / 1.376	- / 1.339	- / 1.159	- / 1.133	- / -	- / 24.795
Installation												
Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)	- / 0.000	- / -	- / 5.250	- / 6.306	- / -	- / 6.306	- / 4.594	- / 6.602	- / 5.017	- / 4.019	- / 37.769	- / 69.557
Subtotal: Installation	- / 0.000	- / -	- / 5.250	- / 6.306	- / -	- / 6.306	- / 4.594	- / 6.602	- / 5.017	- / 4.019	- / 37.769	- / 69.557
Total												
Total Cost (Procurement + Support + Installation)	12.484	28.197	26.492	16.836	-	16.836	10.642	13.672	11.288	6.834	72.010	198.455

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Exhibit P-3a, Individual Modification: PB 2017 Navy						Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0586 / P-8 Series			Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)	
Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)							
Manufacturer Information							
Manufacturer Name: Boeing - Increment 2 ECP 2				Manufacturer Location: Seattle, WA5			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Feb 2015	Feb 2015					
Delivery Dates	Oct 2015	Oct 2016					
Manufacturer Name: Boeing - Airframe Mod				Manufacturer Location: Seattle, WA2			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates			May 2017	May 2018	May 2019	May 2020	May 2021
Manufacturer Name: Boeing - Modernization and Safety				Manufacturer Location: Seattle, WA			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Feb 2016	Feb 2017	Feb 2018	Feb 2019	Feb 2020	
Delivery Dates		Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	
Manufacturer Name: Boeing - Weapons Provision				Manufacturer Location: Seattle, WA			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Feb 2016	Feb 2017	Feb 2018			
Delivery Dates		Oct 2016	Oct 2017	Oct 2018			
Manufacturer Name: Boeing - Engine Coating				Manufacturer Location: Seattle, WA-			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 1			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates			Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Manufacturer Name: Boeing - Air Compressor Shroud				Manufacturer Location: Seattle, WA			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Feb 2016	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Manufacturer Information

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Delivery Dates		Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Boeing - SSL/SRL				Manufacturer Location: Seattle, Wa			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 2			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Modernization and Safety

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	53 / 0.787	- / -	53 / 0.787	- / -	- / -	- / -	- / -	- / -	53 / 0.787
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	37 / 1.083	- / -	- / -	- / -	- / -	37 / 1.083
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.808	- / -	- / -	- / -	45 / 0.808
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.144	- / -	- / -	40 / 0.144
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.144	- / -	25 / 0.144
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 16.500	25 / 16.500
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	53 / 0.787	- / -	53 / 0.787	37 / 1.083	45 / 0.808	40 / 0.144	25 / 0.144	25 / 16.500	225 / 19.466

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	13	13	13	14	9	9	10	9	11	11	11	12	10	10	10	10	6	6	6	7	25	225
Out	-	-	-	-	-	-	-	-	-	-	13	13	13	14	9	9	10	9	11	11	11	12	10	10	10	10	6	6	6	32	225

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Increment 2 ECP 2

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	21 / 5.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 5.250
FY 2016	- / -	- / -	- / -	16 / 3.530	- / -	16 / 3.530	- / -	- / -	- / -	- / -	- / -	16 / 3.530
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	21 / 5.250	16 / 3.530	- / -	16 / 3.530	- / -	- / -	- / -	- / -	- / -	37 / 8.780

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	3	6	6	6	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37
Out	-	-	-	-	-	-	3	6	6	6	4	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37

Method of Implementation: Contractor Field Mod Team:: Installation Name: Weapons Provision

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	19 / 1.200	- / -	19 / 1.200	- / -	- / -	- / -	- / -	- / -	19 / 1.200
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	19 / 1.222	- / -	- / -	- / -	- / -	19 / 1.222
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.982	- / -	- / -	- / -	15 / 0.982
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	19 / 1.200	- / -	19 / 1.200	19 / 1.222	15 / 0.982	- / -	- / -	- / -	53 / 3.404

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Weapons Provision

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	5	5	5	4	5	5	5	4	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
Out	-	-	-	-	-	-	-	-	-	-	5	5	5	4	5	5	5	4	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	53

Method of Implementation: Contractor Field Mod Team:: Installation Name: SSL / SRL

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	5 / 0.039	- / -	5 / 0.039	- / -	- / -	- / -	- / -	- / -	5 / 0.039
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.027	- / -	- / -	- / -	- / -	5 / 0.027
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.015	- / -	- / -	- / -	5 / 0.015
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.033	- / -	- / -	11 / 0.033
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.003	- / -	1 / 0.003
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.162	27 / 0.162
Total	- / -	- / -	- / -	5 / 0.039	- / -	5 / 0.039	5 / 0.027	5 / 0.015	11 / 0.033	1 / 0.003	27 / 0.162	54 / 0.279

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	1	2	2	-	1	2	2	-	1	2	2	-	3	4	4	-	1	-	-	27	54
Out	-	-	-	-	-	-	-	-	-	-	-	1	2	2	-	1	2	2	-	1	2	2	-	3	4	4	-	1	-	27	54

Method of Implementation: Contractor Field Mod Team:: Installation Name: Airframe MOD

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Airframe MOD

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	6 / 0.300	- / -	6 / 0.300	- / -	- / -	- / -	- / -	- / -	6 / 0.300
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.305	- / -	- / -	- / -	- / -	6 / 0.305
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.415	- / -	- / -	- / -	8 / 0.415
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.264	- / -	- / -	5 / 0.264
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.268	- / -	5 / 0.268
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	6 / 0.300	- / -	6 / 0.300	6 / 0.305	8 / 0.415	5 / 0.264	5 / 0.268	- / -	30 / 1.552

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	3	3	-	-	3	3	-	-	4	4	-	-	3	2	-	-	3	2	-	30
Out	-	-	-	-	-	-	-	-	-	-	-	3	3	-	-	3	3	-	-	4	4	-	-	3	2	-	-	3	2	30

Method of Implementation: Contractor Field Mod Team:: Installation Name: Engine Coating

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	3 / 0.450	- / -	3 / 0.450	- / -	- / -	- / -	- / -	- / -	3 / 0.450
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.374	- / -	- / -	- / -	- / -	9 / 1.374
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 1.710	- / -	- / -	- / -	11 / 1.710
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.949	- / -	- / -	6 / 0.949
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.450	- / -	9 / 1.450
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / 13.685	82 / 13.685
Total	- / -	- / -	- / -	3 / 0.450	- / -	3 / 0.450	9 / 1.374	11 / 1.710	6 / 0.949	9 / 1.450	82 / 13.685	120 / 19.618

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Engine Coating

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	1	1	1	-	3	3	3	-	4	4	3	-	2	2	2	-	3	3	3	82	120
Out	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	3	3	3	-	4	4	3	-	2	2	2	-	3	3	85	120

Method of Implementation: Contractor Field Mod Team:: Installation Name: Air Compressor Shroud

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.583	- / -	- / -	- / -	- / -	2 / 0.583
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.672	- / -	- / -	- / -	9 / 2.672
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 3.627	- / -	- / -	12 / 3.627
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.154	- / -	7 / 2.154
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 4.000	13 / 4.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 3.422	25 / 3.422
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.583	9 / 2.672	12 / 3.627	7 / 2.154	38 / 7.422	68 / 16.458

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	3	2	2	3	3	3	3	2	2	2	1	38	68
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	3	2	2	3	3	3	3	2	2	2	39	68

Method of Implementation (Organic): SNS

Installation Quantity: 60

Method of Implementation (Organic): Acoustics Processor Tech Refresh/Insertion

Installation Quantity: 73

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Modification Item 1 of 1: P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

Installation Information

Method of Implementation (Organic): Increment 2 ECP 1 B Kit - Not Installed	Installation Quantity: 13
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Method of Implementation (Organic): Increment 2 ECP 2 B Kit - Not Installed	Installation Quantity: 37
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Method of Implementation (Organic): SNS	Installation Quantity: 60
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Footnotes:

- (1) Modernization and Safety consist of various A and B Kits valued at under \$150K . The Modernization and Safety install also include funding for the retrofit of firmware and software developed with RDT&E funding.
- (2) Installs will be done at the O-Level
- (3) The Modernization and Safety include the productionization test aircraft that will be returned to the fleet.
- (4) Installs will be done at the O-Level
- (5) Installs include \$24K for 61 FY 17 and \$12K for 30 FY 18 spares forced retrofits.
- (6) Increment 2 ECP 2 trainers are software modification only. No hardware installation required.

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 2 / CNO Project K-0416 (OSIP 002-15)
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	1.600	1.600	2.000	-	2.000	2.000	2.000	2.000	2.000	2.000	15.200
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	1.600	1.600	2.000	-	2.000	2.000	2.000	2.000	2.000	2.000	15.200
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	1.600	1.600	2.000	-	2.000	2.000	2.000	2.000	2.000	2.000	15.200
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Chief of Naval Operations (CNO) Project K-0416 program provides a rapid response Anti-Submarine Warfare intelligence collection, analysis, and reporting system program focused on Operations Plan specific threat submarines, both conventional and nuclear.

CNO K-0416 mission is to place high quality calibrated data on tape for subsequent exploitation and analysis. It is essential for submarine prosecution in deep and littoral water conditions in support of the Sea Shield/Sea Power 21 and preparation of the battle space.

The program accomplishes this by introducing advanced collection avionics that operate with special calibrated sensors to provide threat target data for tactical, Science and Technology (S&T), and weapon design uses. The Sound Pressure Level Collection Suite that is installed on the P-8 mission kits contain several Weapons Replaceable Assembly's, both fabricated & procured. The Suite includes a 8201 modulation meter, a panasonic toughbook, and a Beartrap Automated Noise and Digital Integrated Test set.

CNO K-0416 will calibrate P-8 Platforms, forward sited laboratories, and select forward deployed sites with these collection avionics to provide tactical and S&T Intelligence. Prime performer is the Naval Air Warfare Center (NAWC), Patuxent River. NAWC performs system integration, material acquisition, fabrication, and installation of collection systems.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: The changes identified are minor and do not require approval for full production.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0586 / P-8 Series					Modification Number / Title: 2 / CNO Project K-0416 (OSIP 002-15)			
Models of Systems Affected: P-8A MMA				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> CNO Project K-0416 (OSIP 002-15)													
A Kits													
Recurring													
1.1.1) Airborne Anti-Submarine Warfare Intelligence Equipment - Organic	- / -	4 / 0.200	4 / 0.200	4 / 0.400	- / -	4 / 0.400	4 / 0.400	4 / 0.400	4 / 0.400	4 / 0.400	4 / 0.400	32 / 2.800	
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.200	- / 0.200	- / 0.400	- / -	- / 0.400	- / 0.400	- / 0.400	- / 0.400	- / 0.400	- / 0.400	- / 2.800	
B Kits													
Recurring													
2.1.1) Active Target Strength C2 - Organic	- / -	- / -	1 / 0.200	1 / 0.200	- / -	1 / 0.200	1 / 0.200	1 / 0.200	1 / 0.200	1 / 0.200	1 / 0.200	7 / 1.400	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 0.200	- / 0.200	- / -	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 1.400	
<i>Subtotal: CNO Project K-0416 (OSIP 002-15)</i>	- / -	4 / 0.200	5 / 0.400	5 / 0.600	- / -	5 / 0.600	5 / 0.600	5 / 0.600	5 / 0.600	5 / 0.600	5 / 0.600	39 / 4.200	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 0.200	- / 0.400	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 4.200	
Support (All Modification Items)													
3.4) Support Equipment	- / -	- / 0.200	- / 0.200	- / 0.200	- / -	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 0.200	- / 1.600	
3.6) Organic Support	- / -	- / 0.600	- / 0.400	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 4.600	
3.7) Interim Contractor Support	- / -	- / 0.600	- / 0.600	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 4.800	
<i>Subtotal: Support</i>	- / 0.000	- / 1.400	- / 1.200	- / 1.400	- / -	- / 1.400	- / 1.400	- / 1.400	- / 1.400	- / 1.400	- / 1.400	- / 11.000	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	1.600	1.600	2.000	-	2.000	2.000	2.000	2.000	2.000	2.000	15.200	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 2 / CNO Project K-0416 (OSIP 002-15)
<i>Modification Item 1 of 1:</i> CNO Project K-0416 (OSIP 002-15)		
Installation Information		
Method of Implementation (Organic): Airborne Anti-Submarine Warfare Intelligence Equipment		Installation Quantity: 32
Method of Implementation (Organic): Active Target Strength C2		Installation Quantity: 7

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	6.000	187.900	182.810	190.043	2,003.970	2,570.723
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	6.000	187.900	182.810	190.043	2,003.970	2,570.723
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	6.000	187.900	182.810	190.043	2,003.970	2,570.723
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The P-8A Mission Systems Upgrade program will ensure that the P-8A continues to meet the Navy's requirement to perform Anti-Submarine Warfare (ASW) and Anti-Surface Warfare (ASuW) and ISR Sea Control objectives. This line funds P-8A Increment 3 and other Mission Systems improvements identified as fleet prioritized mission system enhancements or as a part of the Rapid Capability Insertion (RCI) process. This includes the requisite funding to implement various cost effective changes to critical P-8A Weapon systems and corresponding changes to Tactical Operations Center (TOC) and Mobile Tactical Operation Center (MTOC). Increment 3 includes upgrades to P-8A systems including Combat System architecture improvements, ASW and ASuW sensor improvements, communication capability upgrades, ASuW Net enabled Weapon (NEW), Higher -Than-Secret security capability, and High Altitude ASW Weapons Capability (HAAWC) datalink. Additionally, OSIP 006-18 funds mission systems reliability improvements, obsolescence, periodic technology insertion, urgent operational needs, correction of deficiencies and flight safety issues.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

These capabilities are being developed as a series of ECPs similar to the approach used for Increment 2.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0586 / P-8 Series					Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)			
Models of Systems Affected: P-8A MMA				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)</i>													
A Kits													
Recurring													
1.1.1) Increment 3 Block 1 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	54 / 0.287	54 / 0.287	54 / 0.287	- / -	- / -	162 / 0.861	
1.1.2) Increment 3 Block 2 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 31.497	8 / 28.473	8 / 28.949	84 / 325.903	109 / 414.822	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.287	- / 31.784	- / 28.760	- / 28.949	- / 325.903	- / 415.683	
B Kits													
Recurring													
2.1.1) Increment 3 Block 1 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	54 / 0.869	54 / 0.869	54 / 0.869	- / -	- / -	162 / 2.607	
2.1.2) Increment 3 Block 2 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 94.500	8 / 85.428	8 / 86.856	84 / 972.847	109 / 1,239.631	
2.1.3) Rapid Capability Insertion - Organic	- / -	- / -	- / -	- / -	- / -	- / -	65 / 0.288	54 / 16.098	48 / 14.551	48 / 14.794	302 / 90.609	517 / 136.340	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.157	- / 111.467	- / 100.848	- / 101.650	- / 1,063.456	- / 1,378.578	
Non-Recurring													
2.2.1) Installation Equipment NRE - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.037	- / 20.885	- / 2.752	- / 2.179	- / -	- / 29.853	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 4.037	- / 20.885	- / 2.752	- / 2.179	- / -	- / 29.853	
Subtotal: P-8A Mission Systems RCI (OSIP 006-18)	- / -	- / -	- / -	- / -	- / -	- / -	173 / 5.481	180 / 164.136	172 / 132.360	64 / 132.778	470 / 1,389.359	1,059 / 1,824.114	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 5.481	- / 164.136	- / 132.360	- / 132.778	- / 1,389.359	- / 1,824.114	
Support (All Modification Items)													
3.2) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.350	- / 0.400	- / 1.250	- / 6.800	- / 8.800	
3.3) Increment 3 Trainers	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.516	2 / 1.542	2 / 1.568	112 / 91.700	118 / 96.326	
3.4) ILS ⁽⁷⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.170	- / 2.822	- / 2.119	- / 7.385	- / 33.447	- / 45.943	
3.5) Other Support ⁽⁸⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.349	- / 18.118	- / 15.182	- / 18.708	- / 120.974	- / 173.331	
Subtotal: Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.519	- / 22.806	- / 19.243	- / 28.911	- / 252.921	- / 324.400	
Installation													
Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.958	- / 31.207	- / 28.354	- / 361.690	- / 422.209	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.958	- / 31.207	- / 28.354	- / 361.690	- / 422.209	
Total													

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)

Models of Systems Affected: P-8A MMA	Modification Type: TBD	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	6.000	187.900	182.810	190.043	2,003.970	2,570.723

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)

Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)

Manufacturer Information

Manufacturer Name: Boeing - Increment 3 Block 1	Manufacturer Location: Seattle, WA
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 8

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Feb 2018	Feb 2019	Feb 2020	
Delivery Dates				Oct 2018	Oct 2019	Oct 2020	

Manufacturer Name: Boeing -Increment 3 Block 2	Manufacturer Location: Seattle, WA
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 8

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Feb 2019	Feb 2020	Feb 2021
Delivery Dates					Oct 2019	Oct 2020	Oct 2021

Manufacturer Name: Boeing - Increment 3 Trainers	Manufacturer Location: Seattle, WA
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 8

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Feb 2019	Feb 2020	Feb 2021
Delivery Dates					Oct 2019	Oct 2020	Oct 2021

Installation Information

Method of Implementation: Method:: Installation Name: Increment 3 Block 1

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 0.958	- / -	- / -	- / -	54 / 0.958
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 0.958	- / -	- / -	54 / 0.958
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 0.958	- / -	54 / 0.958
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 0.958	54 / 0.958	54 / 0.958	- / -	162 / 2.874

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)

Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)

Installation Information

Method of Implementation: Method:: Installation Name: Increment 3 Block 1

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	-	18	18	18	-	18	18	18	-	-	-	162
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	-	18	18	18	-	18	18	18	-	-	-	162

Method of Implementation: Method:: Installation Name: Increment 3 Block 2

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 29.799	- / -	- / -	9 / 29.799
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 26.938	- / -	8 / 26.938
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 32.320	8 / 32.320
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	84 / 301.840	84 / 301.840
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 29.799	8 / 26.938	92 / 334.160	109 / 390.897

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	-	3	3	2	-	92	109
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	-	3	3	2	-	92	109

Method of Implementation: Method:: Installation Name: Increment 3 Trainer

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)

Modification Item 1 of 1: P-8A Mission Systems RCI (OSIP 006-18)

Installation Information

Method of Implementation: Method:: Installation Name: Increment 3 Trainer

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.450	- / -	- / -	2 / 0.450
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.458	- / -	2 / 0.458
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.464	2 / 0.464
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 27.066	112 / 27.066
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.450	2 / 0.458	114 / 27.530	118 / 28.438

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	1	-	-	114	118
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	1	-	-	114	118

Method of Implementation (Organic): Increment 3 Block 1 - Not Installed **Installation Quantity:** 162

Method of Implementation (Organic): Increment 3 Block 2 - Not Installed **Installation Quantity:** 109

Method of Implementation (Organic): Rapid Capability Insertion - Not Installed **Installation Quantity:** 517

Footnotes:

- (7) Logistics funding profile reflects the stand up of the P-8A retrofit support team.
- (8) Other Support funding profile reflects the stand up of the P-8A retrofit support team.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 4 / P-8 Aircraft Systems (OSIP 001-19)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	2.436	2.476	3.698	-	8.610
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	2.436	2.476	3.698	-	8.610
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	-	2.436	2.476	3.698	-	8.610
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The P-8A is a commercial Boeing 737 derivative that provides Broad Area Maritime and Littoral Armed Intelligence, Surveillance and Reconnaissance (ISR). The P-8A Aircraft Systems Upgrade program will ensure that the P-8A continues to meet the Navy's requirement to perform Anti-Submarine Warfare (ASW) and Anti-Surface Warfare (ASuW) and ISR Sea Control objectives.

This line item funds aircraft systems modifications to the air vehicle, propulsion and power systems, and weapons and stores including: Airframe modifications to improve aircrew safety, aircraft systems modifications to support changes in Size, Weight, Power, and Cooling (SWAP-C) requirements of aircraft and mission systems equipment, airframe modifications to incorporate Signals Intelligence (SIGINT) Quick Reaction Capabilities (QRC) both on a temporary and permanent basis, aircraft systems modifications required to support incorporation of applicable commercial service bulletins, airframe modifications to improve the storage of aircrew equipment, aircraft systems modifications to support weapons and stores, aircraft system modifications to improve reliability of the sonobouy launch systems, incorporation of structural enhancements and changes required to enable the airframe to reach its designed service life or extend the service life if required, correction of deficiencies identified as a result of testing, upgrades to aircraft systems due to obsolescence, correction of operational discrepancies, correction of safety deficiencies. This also includes the requisite funding to implement various cost effective changes to critical P-8A systems, including Rapid Capability Improvements. These changes can be either airframe, avionic, or procedures.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

No major development milestones. The changes identified will utilize the Engineering Change Proposal (ECP) process.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy								Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series				Modification Number / Title: 4 / P-8 Aircraft Systems (OSIP 001-19)					
Models of Systems Affected: [No Model Specified]			Modification Type: TBD					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: P-8 Aircraft Systems (OSIP 001-19)</i>													
A Kits													
Recurring													
1.1.1 Aircraft Systems Upgrade A Kits - NonOrganic													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.285	5 / 1.308	7 / 1.867	- / -	17 / 4.460	
<i>Subtotal: Recurring</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.285	- / 1.308	- / 1.867	- / -	- / 4.460	
B Kits													
Recurring													
2.1.1 Aircraft Systems Upgrade B Kit Equipment - Organic													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.570	5 / 0.580	7 / 0.827	- / -	17 / 1.977	
<i>Subtotal: Recurring</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.570	- / 0.580	- / 0.827	- / -	- / 1.977	
<i>Subtotal: P-8 Aircraft Systems (OSIP 001-19)</i>													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.855	10 / 1.888	14 / 2.694	- / -	34 / 6.437	
<i>Subtotal: Procurement, All Modification Items</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.855	- / 1.888	- / 2.694	- / -	- / 6.437	
Support (All Modification Items)													
3.2) Data													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	- / 0.051	- / 0.052	- / -	- / 0.153	
3.5) ILS													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.150	- / 0.153	- / 0.155	- / -	- / 0.458	
3.6) Other Support													
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.350	- / 0.353	- / 0.357	- / -	- / 1.060	
<i>Subtotal: Support</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.550	- / 0.557	- / 0.564	- / -	- / 1.671	
Installation													
<i>Modification Item 1 of 1: P-8 Aircraft Systems (OSIP 001-19)</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.031	- / 0.031	- / 0.440	- / -	- / 0.502	
<i>Subtotal: Installation</i>													
	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.031	- / 0.031	- / 0.440	- / -	- / 0.502	
Total													
Total Cost (Procurement + Support + Installation)													
	0.000	-	-	-	-	-	-	2.436	2.476	3.698	-	8.610	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 4 / P-8 Aircraft Systems (OSIP 001-19)

Modification Item 1 of 1: P-8 Aircraft Systems (OSIP 001-19)

Manufacturer Information

Manufacturer Name: Boeing - Aircraft Systems Upgrade	Manufacturer Location: Seattle, WA-
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Dec 2019	Dec 2020	
Delivery Dates					Mar 2020	Mar 2021	

Manufacturer Name: Boeing - Aircraft Systems Upgrade Trainers	Manufacturer Location: Seattle, Wa
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Dec 2019	Dec 2020	
Delivery Dates					Mar 2020	Mar 2021	

Installation Information

Method of Implementation: [none specified]:: Installation Name: Aircraft Systems Upgrade A Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.031	- / -	- / -	- / -	5 / 0.031
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.031	- / -	- / -	5 / 0.031
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.440	- / -	7 / 0.440
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.031	5 / 0.031	7 / 0.440	- / -	17 / 0.502

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	1	1	1	2	2	2	1	2	-	17
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	1	1	1	2	2	2	1	2	17

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 4 / P-8 Aircraft Systems (OSIP 001-19)
Modification Item 1 of 1: P-8 Aircraft Systems (OSIP 001-19)		
Installation Information		
Method of Implementation (Organic): Aircraft Systems Upgrade B Kit Equipment		Installation Quantity: 17

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604376M
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	71.627	17.170	7.680	5.676	-	5.676	5.682	11.267	11.360	11.588	135.059	277.109
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	71.627	17.170	7.680	5.676	-	5.676	5.682	11.267	11.360	11.588	135.059	277.109
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	71.627	17.170	7.680	5.676	-	5.676	5.682	11.267	11.360	11.588	135.059	277.109

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modification efforts for the System of Systems (SOS) and Family of Systems (FOS) that support the Marine Air Ground Task Force Electronic Warfare (MAGTF EW) mission. These SOS and FOS are designed to support improved capabilities to address existing and emerging threats and close gaps in MAGTF EW sufficiency and integration in the EW arena. These capabilities are designed for carriage on an expansive variety of organic air and ground MAGTF assets and include: Software Reprogrammable Payload (SRP), Collaborative Electronic Attack (EA)/EW Battle Management, EW Services Architecture (formerly Collaborative On-Line Reconnaissance Provider of Operational Responsive Attack Link (CORPORAL)), and Intrepid Tiger series.

MAGTF EW will support procurement of new technologies and equipment as needed to combat emerging electronic warfare (EW) technologies and systems.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0587 / MAGTF EW for Aviation

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604376M

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / SOFTWARE REPROGRAMMABLE PAYLOAD (OSIP 034-12) (RELIABILITY / MISSION CAPABILITY)			- / 0.489	- / 0.643	- / -	- / -	- / -	- / -
P-3a	2 / INTREPID TIGER II SERIES (ALQ-231) (OSIP 010-13) (RELIABILITY / MISSION CAPABILITY)			- / 68.538	- / 16.527	- / 7.680	- / 5.676	- / -	- / 5.676
P-3a	3 / INACTIVE OSIPS (RELIABILITY / MISSION CAPABILITY)			- / 2.600	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 71.627	- / 17.170	- / 7.680	- / 5.676	- / -	- / 5.676

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / SOFTWARE REPROGRAMMABLE PAYLOAD (OSIP 034-12) (RELIABILITY / MISSION CAPABILITY)			- / -	- / -	- / -	- / -	- / -	- / 1.132
P-3a	2 / INTREPID TIGER II SERIES (ALQ-231) (OSIP 010-13) (RELIABILITY / MISSION CAPABILITY)			- / 5.682	- / 11.267	- / 11.360	- / 11.588	- / 135.059	- / 273.377
P-3a	3 / INACTIVE OSIPS (RELIABILITY / MISSION CAPABILITY)			- / -	- / -	- / -	- / -	- / -	- / 2.600
P-40	Total Gross/Weapon System Cost			- / 5.682	- / 11.267	- / 11.360	- / 11.588	- / 135.059	- / 277.109

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The term Electronic Warfare (EW) refers to the use of Electro-Magnetic (EM) energy and Directed Energy (DE) to control the Electro-Magnetic Spectrum (EMS) or to attack the enemy. EW consists of three divisions: electronic attack (EA), Electronic Protect (EP), and electronic warfare support (ES). Further, some cyber-operations can be enabled by EW operations to include EW-delivered Computer Network Attacks. Accordingly, the Marine Corps considers the EMS as a war-fighting environment that must be fully integrated into the MAGTF Commanders' scheme-of-maneuver, and concept-of-fires. The concept of operations for MAGTF EW takes advantage of advancements in technology that facilitate integration of airborne and ground-based EW assets to collaboratively interact providing the MAGTF Commander with the capabilities to control the EMS at the time and place of his choosing.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation				Modification Number / Title: 1 / SOFTWARE REPROGRAMMABLE PAYLOAD (OSIP 034-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.489	0.643	-	-	-	-	-	-	-	-	-	1.132
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.489	0.643	-	-	-	-	-	-	-	-	-	1.132
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.489	0.643	-	-	-	-	-	-	-	-	-	1.132
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Procures Software Reprogrammable Payload (SRP) Spiral 2 and future Spiral 3 capability multi-function kits for Marine Corps fixed-wing, rotary-wing, tilt-rotor, and unmanned aerial systems aircraft as directed by Weapons Requirements Branch and Headquarters Marine Corps. Costs include hardware, software production, associated communication gear and accompanying hardware such as the Mini- Aircraft Instrumentation System (Mini-AIS) or Mesh Network Manager (MNM), tactical demonstrations and installations necessary to transition this capability with science and technology onto Marine Air Ground Task Force (MAGTF) platforms. The integration of SRP capability onto MAGTF platforms provides advanced communication and data relay for fleet assets and supports the USMC Digital Interoperability vision and the MAGTF Electronic Warfare systems of systems approach for future USMC Electronic Surveillance, Electronic Attack, and Electronic Protect performance.

Development Status:

SRP is a single common spectrum control device that has been developed by the Naval Research Laboratory. SRP is designed to support the Marine Air Ground Task Force (MAGTF) Digital Interoperability vision and the Electronic Warfare (EW) 2020 vision of distributed, networked approach to EW that is designed to increase both capability and capacity. SRP is designed to be integrated on multiple MAGTF fixed-wing, rotary-wing, tilt-rotor, and unmanned aerial systems aircraft including the MV-22, RQ-21, AV-8B, KC-130J, CH-53E/K and H-1 Y/Z.

APN funding for the SRP has been re-aligned to the respective platform budgets commencing in FY 2016.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation					Modification Number / Title: 1 / SOFTWARE REPROGRAMMABLE PAYLOAD (OSIP 034-12)			
Models of Systems Affected: MULTIPLE PLATFORMS				Modification Type: RELIABILITY / MISSION CAPABILITY				Related RDT&E PEs: 0604376M					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: SOFTWARE REPROGRAMMABLE PAYLOAD (OSIP 034-12)</i>													
B Kits													
Recurring													
2.1.1) Installation Equipment - Organic	- / 0.489	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.489	
<i>Subtotal: Recurring</i>	- / 0.489	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.489	
<i>Subtotal: SOFTWARE REPROGRAMMABLE PAYLOAD (OSIP 034-12)</i>	- / 0.489	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.489	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.489	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.489	
Support (All Modification Items)													
3.4) Support Equipment	- / -	- / 0.643	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.643	
<i>Subtotal: Support</i>	- / 0.000	- / 0.643	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.643	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.489	0.643	-	-	-	-	-	-	-	-	-	1.132	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 1 / SOFTWARE REPROGRAMMABLE PAYLOAD (OSIP 034-12)

Modification Item 1 of 1: SOFTWARE REPROGRAMMABLE PAYLOAD (OSIP 034-12)

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation				Modification Number / Title: 2 / INTREPID TIGER II SERIES (ALQ-231) (OSIP 010-13)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	68.538	16.527	7.680	5.676	-	5.676	5.682	11.267	11.360	11.588	135.059	273.377
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	68.538	16.527	7.680	5.676	-	5.676	5.682	11.267	11.360	11.588	135.059	273.377
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	68.538	16.527	7.680	5.676	-	5.676	5.682	11.267	11.360	11.588	135.059	273.377

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Effort for Intrepid Tiger (IT) II capability is designed to expand electro-magnetic spectrum control, spectrum management, and Electronic Warfare (EW) effectiveness against current targets and to provide adaptability to counter future targets as they emerge. Key to this capability is network accessibility that includes EW Services Architecture (formerly CORPORAL) derived infrastructure for integration on multiple aviation platforms including any Marine Air Ground Task Force (MAGTF) tactical fixed-wing, tilt-wing, rotary-wing, and/or Unmanned Air System platforms.

The design includes Open Architecture compliant and easily expandable hardware and software. Engineering Change Proposals (ECPs) will be utilized in order to upgrade component technology via Advanced Technology Kits. Advanced Technology Kits will focus on new capability insertion for the Technique Generator, Antennas, Network and EW Services, Interfaces, and other supporting technology. Technique Generator Upgrades: Upgrades will enable new techniques to provide additional capability that counters existing and anticipated threat systems while maintaining an open architecture to allow future counter threat upgrades. Antenna Upgrades: Upgrades will expand transmit and receive frequency coverage to that of current and anticipated threat systems dynamically operating in a broad spectrum. Network and EW Services Upgrade: Will enable a non-co-located operator access to pod functions and information exchanges via radio signals to enhance operational and tactical flexibility. Interface Upgrades: Will enable ground and air based users to configure and monitor pod status, operation and effectiveness. Other Supporting Upgrades: Includes hardware and software components that enable functions of power, cooling, status, control and connectivity as through processors, sensors, radios, RF components and support equipment critical to overall pod and system operation to include techniques, mission planning, operational execution, post-flight analysis and shipping containers.

ENGINEERING CHANGES: This ALQ-231 program covers system modifications required to improve reliability/maintainability/availability, enhance mission capability, interface/integrate with evolving electro-magnetic spectrum control, spectrum management, and EW systems, resolve obsolescence issues, and correct deficiencies found in testing or in the field.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The AN/ALQ-231(V) Intrepid Tiger II (IT II) EW pod was developed in response to multiple Joint Urgent Operational Needs Statements. IT II was developed to provide an EW Family of Systems (FoS) and is designed to be integrated on MAGTF fixed-wing, tilt-wing, rotary-wing, and Unmanned Air System (UAS) aircraft. IT II is the first deployable hardware and Electronic Warfare Services Architecture in support of the MAGTF EW 2020 vision of a distributed, networked approach to EW that is designed to increase both capability and capacity. The original Block 0 pod provided a communications jamming capability and was integrated on the AV-8B Harrier aircraft. IT II Block 0 completed a Quick Reaction Assessment in February 2012 and began an Early Operational Capability (EOC) deployment in the 3Q of FY12. The Block 0 pod completed four land-based expeditionary two ship-based Marine Expeditionary Unit (MEU) deployments. On 29 February 2012, the IT II Block 1 USMC TACAIR variant, the (V)1, was approved by Assistant Secretary of Navy, Research, Development and Acquisition as a Rapid Deployment Capability (RDC). The Block 1 pod provides multiple upgrades over the Block 0 variant to include correction of deficiencies, the addition of a survey capability, and integration on a second platform, the F/A-18 A++ and F/A-18C/D. The AV-8B Block 1 EOC deployment began in November 2013. USMC F/A-18 Block 1 EOC deployment began in late 3Q FY14. In January 2014 the IT II Block 1 USMC rotary-wing variant, the (V)3, was approved by ASN(RDA) as a RDC. USMC rotary-wing integration began in FY14 with an expected EOC deployment on UH-1 T/M/S aircraft in 3Q FY16.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation					Modification Number / Title: 2 / INTREPID TIGER II SERIES (ALQ-231) (OSIP 010-13)			
Models of Systems Affected: MULTIPLE PLATFORMS				Modification Type: RELIABILITY / MISSION CAPABILITY				Related RDT&E PEs: 0604376M, 0604270N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: INTREPID TIGER II SERIES (ALQ-231) (OSIP 010-13)</i>													
B Kits													
Recurring													
2.1.1) ALQ-231(V)3 (Rotary Wing) - Organic ⁽¹⁾	- / -	5 / 5.164	3 / 2.920	5 / 4.000	- / -	5 / 4.000	5 / 4.080	- / -	- / -	- / -	36 / 28.848	54 / 45.012	
2.1.2) ALQ-231(V)1 BLK X Radar Jammer Upgrade Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 8.088	12 / 8.244	12 / 8.412	26 / 18.586	62 / 43.330	
2.1.3) Archived Mods - Organic	- / 42.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.212	
<i>Subtotal: Recurring</i>	- / 42.212	- / 5.164	- / 2.920	- / 4.000	- / -	- / 4.000	- / 4.080	- / 8.088	- / 8.244	- / 8.412	- / 47.434	- / 130.554	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽²⁾	- / 10.944	- / 1.175	- / -	- / -	- / -	- / -	- / -	- / 1.184	- / 1.081	- / 1.103	- / 36.951	- / 52.438	
<i>Subtotal: Non-Recurring</i>	- / 10.944	- / 1.175	- / -	- / -	- / -	- / -	- / -	- / 1.184	- / 1.081	- / 1.103	- / 36.951	- / 52.438	
<i>Subtotal: INTREPID TIGER II SERIES (ALQ-231) (OSIP 010-13)</i>	- / 53.156	5 / 6.339	3 / 2.920	5 / 4.000	- / -	5 / 4.000	5 / 4.080	12 / 9.272	12 / 9.325	12 / 9.515	62 / 84.385	116 / 182.992	
<i>Subtotal: Procurement, All Modification Items</i>	- / 53.156	- / 6.339	- / 2.920	- / 4.000	- / -	- / 4.000	- / 4.080	- / 9.272	- / 9.325	- / 9.515	- / 84.385	- / 182.992	
Support (All Modification Items)													
3.4) Support Equipment ⁽³⁾	- / 5.750	- / 0.798	- / 0.702	- / 0.525	- / -	- / 0.525	- / 0.214	- / 0.579	- / 0.591	- / 0.600	- / 34.958	- / 44.717	
3.5) ILS ⁽⁴⁾	- / 6.632	- / 0.734	- / 0.750	- / 0.555	- / -	- / 0.555	- / 0.780	- / 0.796	- / 0.812	- / 0.828	- / -	- / 11.887	
3.6) Other Support ⁽⁵⁾	- / 3.000	- / 8.656	- / 3.308	- / 0.596	- / -	- / 0.596	- / 0.608	- / 0.620	- / 0.632	- / 0.645	- / 15.716	- / 33.781	
<i>Subtotal: Support</i>	- / 15.382	- / 10.188	- / 4.760	- / 1.676	- / -	- / 1.676	- / 1.602	- / 1.995	- / 2.035	- / 2.073	- / 50.674	- / 90.385	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	68.538	16.527	7.680	5.676	-	5.676	5.682	11.267	11.360	11.588	135.059	273.377	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 2 / INTREPID TIGER II SERIES (ALQ-231) (OSIP 010-13)
Modification Item 1 of 1: INTREPID TIGER II SERIES (ALQ-231) (OSIP 010-13)		
Installation Information		
Method of Implementation (Organic): ALQ-231(V)3 (Rotary Wing) - Not Installed		Installation Quantity: 54
Method of Implementation (Organic): ALQ-231(V)1 BLK X Radar Jammer Upgrade Kits - Not Installed		Installation Quantity: 62
<p>Footnotes:</p> <p>(1) Cost growth for the ALQ-231(V)3 from previous estimates is driven by the addition of a Direction Finding Array mission kit, which was not included in previous estimates.</p> <p>(2) Installation Equipment N/R cost growth in excess of approved OSD Inflation Indices in FY 2019 is due to integration of ALQ-231(V)1 BLK X capability on fixed-wing and tilt-rotor platforms.</p> <p>(3) FY 2019 increase in Support Equipment procurement is driven by the introduction of the ALQ-231(V)1 BLK X Radar Jammer.</p> <p>(4) ILS cost growth in excess of approved OSD Inflation Indices in FY 2019 is due to integration of ALQ-231(V)1 BLK X capability on fixed-wing platforms.</p> <p>(5) FY 2015 and FY 2016 growth in Other Support was driven by the costs of integrating the Intrepid Tiger II pod on the UH-1 TMS, as well as delays to acceptance test.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 3 / INACTIVE OSIPS
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	2.600	-	-	-	-	-	-	-	-	-	-	2.600
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	2.600	-	-	-	-	-	-	-	-	-	-	2.600
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	2.600	-	-	-	-	-	-	-	-	-	-	2.600
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation						Modification Number / Title: 3 / INACTIVE OSIPS			
Models of Systems Affected: EA-6B				Modification Type: RELIABILITY / MISSION CAPABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: INACTIVE OSIPS</i>													
A Kits													
Recurring													
1.1.1) INACTIVE OSIPS - Organic	- / 2.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.600	
<i>Subtotal: Recurring</i>	- / 2.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.600	
<i>Subtotal: INACTIVE OSIPS</i>	- / 2.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.600	
<i>Subtotal: Procurement, All Modification Items</i>	- / 2.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.600	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	2.600	-	-	-	-	-	-	-	-	-	-	2.600	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 3 / INACTIVE OSIPS
Modification Item 1 of 1: INACTIVE OSIPS		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0588 / MQ-8 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 253
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	8.741	16.304	19.003	-	19.003	9.311	5.189	5.300	5.403	96.969	166.220
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	8.741	16.304	19.003	-	19.003	9.311	5.189	5.300	5.403	96.969	166.220
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	8.741	16.304	19.003	-	19.003	9.311	5.189	5.300	5.403	96.969	166.220

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MQ-8 Unmanned Air System (popular name "Fire Scout") provides real-time and non-real-time Intelligence, Surveillance and Reconnaissance (ISR) data to tactical users without the use of manned aircraft or reliance on limited joint theater or national assets. This line item funds improvements via engineering change orders, correction of deficiencies, obsolescence and safety. This includes items such as modernization, modification of payloads/mission systems/Mission Control System (MCS) (also referred to as Ground Control Station), and retrofit of systems/avionics. Current inventory is 24 MQ-8B and 8 MQ-8C air vehicles. The program will procure a total of 70 air vehicles (30 MQ-8B and 40 MQ-8Cs) to support Fleet requirements. These Operational, Safety and Improvement Programs align to the MQ-8B Initial Operational Capability in 2014 and MQ-8C deliveries in 2015.

The MQ-8 Fire Scout system includes air vehicle(s), payloads (i.e., electro-optical/infra-red/laser designator-range finder, Automatic Identification System, voice communications relay, Radar, Weapons and other specialty payloads), MCS (with Tactical Control System and Tactical Common Data Link integrated for interoperability), Unmanned Air Vehicle Common Automatic Recovery System (UCARS) for automatic launch and recovery, training systems, associated spares, and support equipment. The quantities and schedules for MCS and UCARS components are based on host ship requirements, while quantities and schedules for air vehicle components are based on operational deployment plans. The MQ-8 system supports Littoral Combat Ship and/or suitably-equipped air capable ship ISR collection for Navy and urgent operational requirements. Designated service life and average service life remaining are currently being computed via a fatigue life evaluation. All air vehicles support the active military component.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0588 / MQ-8 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** 253

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14) (Readiness/Safety/Performance Sustainment)			- / 0.000	- / 8.741	- / 10.310	- / 6.427	- / -	- / 6.427
P-3a	2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17) (Readiness/Safety/Performance Sustainment)			- / 0.000	- / -	- / 3.444	- / 4.231	- / -	- / 4.231
P-3a	3 / MQ-8 Payloads (OSIP 010-17) (Readiness/Performance)			- / 0.000	- / -	- / 2.550	- / 8.345	- / -	- / 8.345
P-40	Total Gross/Weapon System Cost			- / 0.000	- / 8.741	- / 16.304	- / 19.003	- / -	- / 19.003

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14) (Readiness/Safety/Performance Sustainment)			- / 0.446	- / 1.162	- / 3.247	- / 2.290	- / 34.040	- / 66.663
P-3a	2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17) (Readiness/Safety/Performance Sustainment)			- / -	- / -	- / -	- / -	- / 21.274	- / 28.949
P-3a	3 / MQ-8 Payloads (OSIP 010-17) (Readiness/Performance)			- / 8.865	- / 4.027	- / 2.053	- / 3.113	- / 41.655	- / 70.608
P-40	Total Gross/Weapon System Cost			- / 9.311	- / 5.189	- / 5.300	- / 5.403	- / 96.969	- / 166.220

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
Decrease in MQ-8 SERIES by \$0.809M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

This line item funds improvements via engineering change orders, correction of deficiencies, obsolescence and safety. This includes correction of deficiencies found during operational use and deployments, improvements for maintainability and reliability, safety corrections, Radar/Weapons/other special payloads, Mission Control System (MCS), and emerging requirements and retrofit of capabilities procured post air vehicle delivery.

For FY17, the program established two new Operational, Safety and Improvement Programs (OSIPs): "MQ-8 MCS Readiness, Obsolescence, and Safety (009-17)" and "MQ-8 Payloads (010-17)." MCS and Payload effort funding was realigned vertically from "MQ-8 Correction of Deficiencies and Modernization (021-14)" to the new OSIPs in FY16 and beyond to provide better alignment and justification to support program execution and provide clarity for required reporting of MQ-8 Payloads.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				MDAP/MAIS Code: 253		P-1 Line Item Number / Title: 0588 / MQ-8 Series				Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)		

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	8.741	10.310	6.427	-	6.427	0.446	1.162	3.247	2.290	34.040	66.663
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	8.741	10.310	6.427	-	6.427	0.446	1.162	3.247	2.290	34.040	66.663
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	8.741	10.310	6.427	-	6.427	0.446	1.162	3.247	2.290	34.040	66.663
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) corrects MQ-8 Air Vehicle deficiencies resulting from readiness, obsolescence, safety and Diminishing Manufacturing Sources and Material Shortages (DMSMS). It also provides for Pre-Planned Product Improvement (P3I) efforts that will improve and modernize system performance, reliability, and maintainability of sensors, avionics, and airframe components to support Intelligence, Surveillance, and Reconnaissance collection for both Navy and urgent operational requirements. Systems addressed on both the MQ-8B and MQ-8C aircraft and trainers include, but are not limited to, the Identification Friend or Foe system, avionics bay redesign, MQ-8B Radar, Harpoon Securing Device removal, Automatic Identification System, hot weather modifications, blade fold, engine, control rods, Unmanned Aerial Vehicle Common Automated Recovery System (UCARS), lithium battery, MQ-8C windscreen, MQ-8C airframe structure, MQ-8B airframe structure, MQ-8 pitot tubes, ARC-210 radios, Tactical Common Data Link, shipboard interface system, MQ-8 common avionics, software, cyber systems, and network interfaces. MQ-8C specific kits are for retrofit into delivered air vehicles.

This OSIP will support modifications which will be depot-level, performed by Fleet Readiness Centers, contractor artisans, contractor field modification teams, and/or organic support.

Coincident with the first MQ-8B deployment on the Littoral Combat Ship (LCS) class, a top ten safety issue list was developed during the program's first System Safety Working Group. As solutions become available aircraft modifications will be implemented to address critical safety issues. Identified issues may include icing detection/avoidance, ground handling, airspace awareness, Global Positioning System vulnerabilities, and cyber security.

Mission Control System (MCS), UCARS, and Payloads requirements were aligned from OSIP 021-14 in PB16 to OSIPs 009-17 and 010-17, respectively in PB17.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MQ-8B Initial Operational Capability (IOC) occurred in FY14. The MQ-8B has deployed since FY10 to support Intelligence, Surveillance and Reconnaissance Task Force, Joint Urgent Operational Need, and is embarked in the first operational deployment aboard the LCS class as part of the Surface Warfare Mission Package. MQ-8C started delivery to the Fleet in FY15.

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Exhibit P-3a, Individual Modification: PB 2017 Navy			Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		MDAP/MAIS Code: 253	P-1 Line Item Number / Title: 0588 / MQ-8 Series			Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Models of Systems Affected: MQ-8B/C	Modification Type: Readiness/Safety/Performance Sustainment	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

A Kits

Recurring

1.1.1) Radar RDC (MQ-8B) - NonOrganic ⁽¹⁾	- / -	- / -	7 / 1.003	7 / 1.023	- / -	7 / 1.023	- / -	- / -	- / -	- / -	- / -	14 / 2.026
1.1.2) HARPOON System Removal (MQ-8B) - NonOrganic	- / -	- / -	2 / 0.004	8 / 0.018	- / -	8 / 0.018	- / -	8 / 0.018	6 / 0.013	- / -	- / -	24 / 0.053
1.1.3) VORTEX Relocation (MQ-8B) - NonOrganic	- / -	- / -	2 / 0.010	4 / 0.020	- / -	4 / 0.020	1 / 0.005	- / -	- / -	- / -	7 / 0.070	14 / 0.105
1.1.4) Control Rod Assembly (MQ-8B) - Organic	- / -	- / -	24 / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.225
1.1.5) Main Rotor Blade Replacement (MQ-8B) - Organic ⁽²⁾	- / -	- / -	2 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.400
1.1.6) Hot Weather Delta Mod (MQ-8B) - Organic	- / -	7 / 0.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.750
Subtotal: Recurring	- / 0.000	- / 0.750	- / 1.642	- / 1.061	- / -	- / 1.061	- / 0.005	- / 0.018	- / 0.013	- / -	- / 0.070	- / 3.559

B Kits

Recurring

2.1.1) ARC-210/RT-1939 Integration (MCS) - Organic	- / -	7 / 1.237	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.237
2.1.2) Avionics Bay Redesign (Corrosion Prevention) (MQ-8B) - Organic	- / -	24 / 0.188	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.188
2.1.3) Navigator Upgrade (MQ-8B) - Organic	- / -	24 / 2.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.200
2.1.4) Automated Identification System (AIS) Receiver Mod (MQ-8B) - Organic	- / -	11 / 0.110	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.155	24 / 0.265
2.1.5) UCARS Dual Antenna (MQ-8B/C) - NonOrganic ⁽³⁾	- / -	- / -	- / -	1 / 0.120	- / -	1 / 0.120	- / -	- / -	1 / 0.120	8 / 0.960	33 / 3.960	43 / 5.160
2.1.6) Lithium Battery Upgrade (MQ-8B/C) - Organic	- / -	- / -	- / -	1 / 0.016	- / -	1 / 0.016	- / -	- / -	1 / 0.018	- / -	42 / 0.844	44 / 0.878
2.1.7) Lightweight Doors (MQ-8C) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.723	4 / 0.434	18 / 2.050	29 / 3.207
2.1.8) Windscreen Upgrade (MQ-8C) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.057	7 / 0.211	4 / 0.126	18 / 0.597	31 / 0.991
2.1.9) VORTEX Kits (MQ-8B) - Organic	- / -	8 / 0.696	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.696
2.1.10) Engine Vibration Monitor-Controller Software (MQ-8B) - Organic	- / -	24 / 0.260	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.260
2.1.11) UCARS Retrofit (MCS) - Organic ⁽⁴⁾	- / -	3 / 1.674	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.674
2.1.12) IFF APX-118 to APX-123 Upgrade (MQ-8B) - Organic	- / -	- / -	14 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.400	24 / 0.900
2.1.13) IFF Mode 5 (MQ-8B/C) - Organic	- / -	- / -	- / -	22 / 0.083	- / -	22 / 0.083	20 / 0.075	- / -	- / -	- / -	- / -	42 / 0.158

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy			Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		MDAP/MAIS Code: 253	P-1 Line Item Number / Title: 0588 / MQ-8 Series		
Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)					

Models of Systems Affected: MQ-8B/C	Modification Type: Readiness/Safety/Performance Sustainment	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.1.14) Tunable Bandpass Filters (MQ-8B) - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.500	1 / 0.125	11 / 1.430	24 / 3.055
<i>Subtotal: Recurring</i>	- / 0.000	- / 6.365	- / 0.500	- / 0.219	- / -	- / 0.219	- / 0.075	- / 0.057	- / 2.572	- / 1.645	- / 9.436	- / 20.869
Non-Recurring												
2.2.1) N/R for MQ-8 Modifications - Organic ⁽⁵⁾	- / -	- / 0.901	- / 3.884	- / 1.546	- / -	- / 1.546	- / -	- / 0.584	- / 0.110	- / 0.015	- / 5.639	- / 12.679
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / 0.901	- / 3.884	- / 1.546	- / -	- / 1.546	- / -	- / 0.584	- / 0.110	- / 0.015	- / 5.639	- / 12.679
<i>Subtotal: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)</i>	- / -	108 / 8.016	51 / 6.026	43 / 2.826	- / -	43 / 2.826	21 / 0.080	10 / 0.659	34 / 2.695	17 / 1.660	152 / 15.145	436 / 37.107
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 8.016	- / 6.026	- / 2.826	- / -	- / 2.826	- / 0.080	- / 0.659	- / 2.695	- / 1.660	- / 15.145	- / 37.107
Support (All Modification Items)												
3.1) ILS ⁽⁶⁾	- / -	- / 0.222	- / 0.695	- / 0.652	- / -	- / 0.652	- / -	- / 0.160	- / 0.165	- / 0.170	- / 8.500	- / 10.564
3.2) Data	- / -	- / 0.221	- / 0.521	- / 0.433	- / -	- / 0.433	- / -	- / -	- / -	- / -	- / -	- / 11.175
3.3) Training Equipment	- / -	- / -	- / 2.087	- / 1.451	- / -	- / 1.451	- / -	- / -	- / -	- / -	- / -	- / 3.538
3.4) Support Equipment	- / -	- / -	- / 0.226	- / 0.156	- / -	- / 0.156	- / 0.048	- / 0.053	- / 0.056	- / 0.055	- / 0.136	- / 0.730
3.5) Other Support	- / -	- / 0.282	- / 0.755	- / 0.821	- / -	- / 0.821	- / 0.234	- / 0.241	- / 0.271	- / 0.269	- / 9.703	- / 12.576
<i>Subtotal: Support</i>	- / 0.000	- / 0.725	- / 4.284	- / 3.513	- / -	- / 3.513	- / 0.282	- / 0.454	- / 0.492	- / 0.494	- / 18.339	- / 28.583
Installation												
<i>Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)</i>	- / 0.000	- / -	- / -	- / 0.088	- / -	- / 0.088	- / 0.084	- / 0.049	- / 0.060	- / 0.136	- / 0.556	- / 0.973
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 0.088	- / -	- / 0.088	- / 0.084	- / 0.049	- / 0.060	- / 0.136	- / 0.556	- / 0.973
Total												
Total Cost (Procurement + Support + Installation)	0.000	8.741	10.310	6.427	-	6.427	0.446	1.162	3.247	2.290	34.040	66.663

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Exhibit P-3a, Individual Modification: PB 2017 Navy			Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	MDAP/MAIS Code: 253	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Manufacturer Information

Manufacturer Name: Northrop Grumman Corp-Radar (MQ-8B) Manufacturer Location: Rancho Bernardo, CA

Administrative Leadtime (in Months): 6 Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016	Mar 2017				
Delivery Dates		Sep 2016	Sep 2017				

Manufacturer Name: TBD-Harpoon Removal (MQ-8B) Manufacturer Location: TBD

Administrative Leadtime (in Months): 12 Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jun 2016	Sep 2017		Sep 2019	Sep 2020	
Delivery Dates		Jun 2017	Sep 2018		Sep 2020	Sep 2021	

Manufacturer Name: TBD-Vortex Relocation (MQ-8B) Manufacturer Location: TBD

Administrative Leadtime (in Months): 7 Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Apr 2016	Apr 2017	Apr 2018			
Delivery Dates		Apr 2017	Apr 2018	Apr 2019			

Manufacturer Name: TBD-UCARS Antenna (MQ-8B) Manufacturer Location: TBD

Administrative Leadtime (in Months): 9 Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jun 2017			Jun 2020	Nov 2020
Delivery Dates			Dec 2017			Sep 2020	Feb 2021

Installation Information

Method of Implementation: [none specified]:: Installation Name: Radar RDC (MQ-8B)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	7 / 0.055	- / -	7 / 0.055	- / -	- / -	- / -	- / -	- / -	7 / 0.055
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.060	- / -	- / -	- / -	- / -	7 / 0.060
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy			Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		MDAP/MAIS Code: 253	P-1 Line Item Number / Title: 0588 / MQ-8 Series			Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Radar RDC (MQ-8B)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	7 / 0.055	- / -	7 / 0.055	7 / 0.060	- / -	- / -	- / -	- / -	14 / 0.115

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	1	2	2	2	1	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Out	-	-	-	-	-	-	-	-	1	2	2	2	1	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14

Method of Implementation: [none specified]:: Installation Name: HARPOON System Removal (MQ-8B)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	2 / 0.027	- / -	2 / 0.027	- / -	- / -	- / -	- / -	- / -	2 / 0.027
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.045	- / -	- / -	- / -	8 / 0.045
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.047	- / -	- / -	8 / 0.047
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.024	2 / 0.014	6 / 0.038
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 0.027	- / -	2 / 0.027	- / -	8 / 0.045	8 / 0.047	4 / 0.024	2 / 0.014	24 / 0.157

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		MDAP/MAIS Code: 253	P-1 Line Item Number / Title: 0588 / MQ-8 Series
		Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)	

Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Installation Information

Method of Implementation: [none specified]:: Installation Name: HARPOON System Removal (MQ-8B)

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	2	2	2	2	2	2	2	2	-	-	2	2	2	24
Out	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	2	2	2	2	2	2	2	-	-	2	2	2	24

Method of Implementation: Contractor Field Mod Team:: Installation Name: VORTEX Relocation (MQ-8B)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	2 / 0.006	- / -	2 / 0.006	- / -	- / -	- / -	- / -	- / -	2 / 0.006
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.012	- / -	- / -	- / -	- / -	4 / 0.012
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.004	- / -	- / -	- / -	1 / 0.004
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.028	7 / 0.028
Total	- / -	- / -	- / -	2 / 0.006	- / -	2 / 0.006	4 / 0.012	1 / 0.004	- / -	- / -	7 / 0.028	14 / 0.050

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	7	14
Out	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	3	-	1	-	-	-	-	-	-	-	-	-	-	7	14

Method of Implementation: [none specified]:: Installation Name: UCARS Dual Antenna (MQ-8B/C)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy			Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1		MDAP/MAIS Code: 253	P-1 Line Item Number / Title: 0588 / MQ-8 Series		
					Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Installation Information

Method of Implementation: [none specified]:: Installation Name: UCARS Dual Antenna (MQ-8B/C)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.012	- / -	- / -	- / -	- / -	1 / 0.012
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.013	- / -	- / -	1 / 0.013
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.112	- / 0.028	8 / 0.140
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 0.486	33 / 0.486
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.012	- / -	1 / 0.013	8 / 0.112	33 / 0.514	43 / 0.651

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	2	4	2	33	43
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	2	4	35	43	

Method of Implementation (Organic): Control Rod Assembly (MQ-8B)	Installation Quantity: 24
Method of Implementation (Organic): Main Rotor Blade Replacement (MQ-8B)	Installation Quantity: 2
Method of Implementation (Organic): Hot Weather Delta Mod (MQ-8B)	Installation Quantity: 7
Method of Implementation (Organic): ARC-210/RT-1939 Integration (MCS)	Installation Quantity: 7
Method of Implementation (Organic): Avionics Bay Redesign (Corrosion Prevention) (MQ-8B)	Installation Quantity: 24
Method of Implementation (Organic): Navigator Upgrade (MQ-8B)	Installation Quantity: 24

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Exhibit P-3a, Individual Modification: PB 2017 Navy			Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	MDAP/MAIS Code: 253	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Modification Item 1 of 1: MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

Installation Information	
Method of Implementation (Organic): Automated Identification System (AIS) Receiver Mod (MQ-8B)	Installation Quantity: 24
Method of Implementation (Organic): Lithium Battery Upgrade (MQ-8B/C)	Installation Quantity: 44
Method of Implementation (Organic): Lightweight Doors (MQ-8C)	Installation Quantity: 29
Method of Implementation (Organic): Windscreen Upgrade (MQ-8C)	Installation Quantity: 31
Method of Implementation (Organic): VORTEX Kits (MQ-8B)	Installation Quantity: 8
Method of Implementation (Organic): Engine Vibration Monitor-Controller Software (MQ-8B) - Not Installed	Installation Quantity: 24
Method of Implementation (Organic): UCARS Retrofit (MCS)	Installation Quantity: 3
Method of Implementation (Organic): IFF APX-118 to APX-123 Upgrade (MQ-8B)	Installation Quantity: 24
Method of Implementation (Organic): IFF Mode 5 (MQ-8B/C) - Not Installed	Installation Quantity: 42
Method of Implementation (Organic): Tunable Bandpass Filters (MQ-8B) - Not Installed	Installation Quantity: 24

Footnotes:

- (1) Radar RDC A-kit retrofits were moved forward from FY17 to FY16 to support fleet needs.
- (2) Qty of two (2) main rotor blades outfits air vehicles for the FY17/FY18 LCS deployments. Remaining blades will be procured by the supply system and replaced through attrition.
- (3) Quantity of kits required for MQ-8C varies due to the fielding schedule and because some ECP requirements may be a production line cut-in.
- (4) Modifies three (3) post-deployment UCARS to improved configuration.
- (5) FY16 non-recurring supports A-kit engineering and drawing requirements for Radar, HARPOON removal, Vortex relocation, and Main Rotor Blade Replacement. FY17 non-recurring supports B-kit installation and software engineering for the UCARS Dual Antenna, Lithium Battery Upgrade, and the IFF Mode 5 improvement.
- (6) Due to the number of ECPs starting and stopping between FY16 to FY21, the Support cost elements (ILS, Data, Training Equipment, Support Equipment, and Other Support) cannot be analyzed at standard phasing levels.

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Exhibit P-3a, Individual Modification: PB 2017 Navy				Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0588 / MQ-8 Series				Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)			

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	3.444	4.231	-	4.231	-	-	-	-	21.274	28.949
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	3.444	4.231	-	4.231	-	-	-	-	21.274	28.949
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	3.444	4.231	-	4.231	-	-	-	-	21.274	28.949
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) addresses modifications to the Mission Control System (MCS) for hardware and software obsolescence. Increases are because the External Communications (EXCOMM) rack and the Unmanned Aerial Vehicle Common Automatic Recovery System (UCARS) have obsolete components which require replacement. Some non-recurring engineering has been completed to support production. This effort procures the kits required and funds the retrofit of MCS-installed equipment onboard Littoral Combat Ships (LCS).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MQ-8B Initial Operational Capability (IOC) occurred in FY14. The MQ-8B has deployed since FY10 to support Intelligence, Surveillance and Reconnaissance (ISR) Task Force, Joint Urgent Operational Need, and is embarked in the first operational deployment aboard the Littoral Combat Ship (LCS) class as part of the Surface Warfare Mission Package. MQ-8C started delivery to the Fleet in FY15.

MCS and UCARS requirements were aligned from OSIP 021-14 in PB16 to OSIP 009-17 in PB17.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)

Models of Systems Affected: [No Model Specified]	Modification Type: Readiness/Safety/Performance Sustainment	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)												
A Kits												
Recurring												
1.1.1 UCARS Airborne Subsystem (Special Test Equipment (STE)) Improvement - Organic ⁽⁷⁾	- / -	- / -	7 / 0.630	2 / 0.189	- / -	2 / 0.189	- / -	- / -	- / -	- / -	24 / 2.895	33 / 3.714
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 0.630	- / 0.189	- / -	- / 0.189	- / -	- / -	- / -	- / -	- / 2.895	- / 3.714
B Kits												
Recurring												
2.1.1 MCS Upgrade Console Phase I - Organic ⁽⁸⁾	- / -	- / -	2 / 2.027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.291	6 / 5.318
2.1.2 MCS Upgrade EXCOMM Phase II - Organic	- / -	- / -	- / -	4 / 3.926	- / -	4 / 3.926	- / -	- / -	- / -	- / -	16 / 15.088	20 / 19.014
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 2.027	- / 3.926	- / -	- / 3.926	- / -	- / -	- / -	- / -	- / 18.379	- / 24.332
Non-Recurring												
2.2.1 N/R for MCS Modifications - Organic	- / -	- / -	- / 0.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.350
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / 0.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.350
<i>Subtotal: MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)</i>	- / -	- / -	9 / 3.007	6 / 4.115	- / -	6 / 4.115	- / -	- / -	- / -	- / -	44 / 21.274	59 / 28.396
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 3.007	- / 4.115	- / -	- / 4.115	- / -	- / -	- / -	- / -	- / 21.274	- / 28.396

Support (All Modification Items)

3.1) ILS	- / -	- / -	- / 0.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.175
3.2) Data	- / -	- / -	- / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.150
3.3) Other Support	- / -	- / -	- / 0.112	- / 0.116	- / -	- / 0.116	- / -	- / -	- / -	- / -	- / -	- / 0.228
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 0.437	- / 0.116	- / -	- / 0.116	- / -	- / -	- / -	- / -	- / -	- / 0.553

Installation

<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
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Total

Total Cost (Procurement + Support + Installation)	0.000	-	3.444	4.231	-	4.231	-	-	-	-	21.274	28.949
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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)

Modification Item 1 of 1: MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)

Installation Information

Method of Implementation (Organic): UCARS Airborne Subsystem (Special Test Equipment (STE)) Improvement - Not Installed	Installation Quantity: 33
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Method of Implementation (Organic): MCS Upgrade Console Phase I	Installation Quantity: 6
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Method of Implementation (Organic): MCS Upgrade EXCOMM Phase II	Installation Quantity: 20
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Method of Implementation (Organic): MCS Upgrade EXCOMM Phase II	Installation Quantity: 20
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Method of Implementation (Organic): MCS Upgrade EXCOMM Phase II	Installation Quantity: 20
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Footnotes:

(7) FY16 funding for MCS OSIP efforts was realigned from OSIP 021-14 and placed here for clarification of cost and execution. UCARS Airborne Subsystem was previously aligned under cost elements 2.1.11 in the PB16 budget submission.

(8) MCS Upgrade Consoles Phase 1 and MCS Upgrade Phase II were previously consolidated under cost element 2.1.4 in the PB16 budget submission. The MCS Upgrade effort is now broken out into Phase I and Phase II requirements. Installation costs are incorporated in the B-Kit procurement. Effort is coordinated with NAVSEA for install onboard LCS during ship maintenance availability.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0588 / MQ-8 Series				Modification Number / Title: 3 / MQ-8 Payloads (OSIP 010-17)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	2.550	8.345	-	8.345	8.865	4.027	2.053	3.113	41.655	70.608
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	2.550	8.345	-	8.345	8.865	4.027	2.053	3.113	41.655	70.608
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	2.550	8.345	-	8.345	8.865	4.027	2.053	3.113	41.655	70.608

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MQ-8 Payloads Operational, Safety and Improvement Program (OSIP) addresses modifications to the MQ-8 Fire Scout System which adds new payloads such as Radar and the Advanced Precision Kill Weapons System (APKWS) II. The Radar payload includes the integration of a competitively-selected non-developmental item Radar with the air vehicle and Mission Control Station (MCS). This capability will improve the MQ-8 Fire Scout's performance in support of Surface Warfare (SUW) Mission Module for the Littoral Combat Ship (LCS) and urgent operational requirements. Once the hardware and software modifications to the air vehicle and MCS are complete, the MQ-8 Fire Scout Mission System Trainer, Avionics Technicians' Trainer, and Aircraft Mechanics' Trainer will be upgraded to include this capability. Delivered MQ-8C air vehicles will be retrofitted for the upgrades via kits.

The FY17 increase in kit procurements reflects maturity of the program and aligns with lead-time required to install in delivered air vehicles to support the planned deployment schedule.

There will be future integration of Weapons payload to include transition of the MQ-8B weaponization Rapid Deployment Capability (RDC) hardware and software to the MQ-8C air vehicle. The initial weaponization capability will integrate the APKWS II missile and its associated hardware and software modifications to the MQ-8C air vehicle and MCS.

There will be future integration of payloads in support of the Mine Countermeasures (MCM) mission module on LCS. Future payloads include the Coastal Battlefield Reconnaissance and Analysis (COBRA) system and the Data Mission Payload (DMP). Future payload integration efforts will be considered when integrating current efforts.

Payload requirements were aligned from OSIP 021-14 in PB16 to OSIP 010-17 in PB17.

DEVELOPMENT STATUS AND MAJOR DEVELOPMENT MILESTONES:

Payload Milestones: The first phase of the SUW Increment for the MQ-8 Fire Scout System Radar is currently in a source selection for the Radar Original Equipment Manufacturer (OEM). Completion of development is anticipated in FY18 with a Follow-on Test and Evaluation (FOT&E) period in 1Q FY19 followed by an Initial Operational Capability (IOC) in 4Q FY19.

MQ-8 System Milestones: MQ-8B IOC occurred in FY14. The MQ-8B has deployed since FY10 to support Intelligence, Surveillance and Reconnaissance (ISR) Task Force, Joint Urgent Operational Need requirements, and has embarked in the first operational deployment aboard the LCS class as part of the SUW Mission Package. MQ-8C started delivery to the Fleet in FY15.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0588 / MQ-8 Series					Modification Number / Title: 3 / MQ-8 Payloads (OSIP 010-17)			
Models of Systems Affected: [No Model Specified]			Modification Type: Readiness/Performance					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: MQ-8 Payloads (OSIP 010-17)</i>													
A Kits													
Recurring													
1.1.1 Radar Upgrade II A Kits - NonOrganic ⁽⁹⁾	- / -	- / -	1 / 0.064	4 / 0.259	- / -	4 / 0.259	5 / 0.331	2 / 0.135	1 / 0.069	2 / 0.140	25 / 1.825	40 / 2.823	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.064</i>	<i>- / 0.259</i>	<i>- / -</i>	<i>- / 0.259</i>	<i>- / 0.331</i>	<i>- / 0.135</i>	<i>- / 0.069</i>	<i>- / 0.140</i>	<i>- / 1.825</i>	<i>- / 2.823</i>	
B Kits													
Recurring													
2.1.1 Radar Upgrade II B Kits - Organic	- / -	- / -	1 / 1.182	4 / 4.839	- / -	4 / 4.839	5 / 6.149	2 / 2.509	1 / 1.280	2 / 2.610	25 / 35.250	40 / 53.819	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 1.182</i>	<i>- / 4.839</i>	<i>- / -</i>	<i>- / 4.839</i>	<i>- / 6.149</i>	<i>- / 2.509</i>	<i>- / 1.280</i>	<i>- / 2.610</i>	<i>- / 35.250</i>	<i>- / 53.819</i>	
Non-Recurring													
2.2.1 Radar Upgrade Nonrecurring - Organic ⁽¹⁰⁾	- / -	- / -	- / 0.160	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.160	
<i>Subtotal: Non-Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 0.160</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.160</i>	
<i>Subtotal: MQ-8 Payloads (OSIP 010-17)</i>	<i>- / -</i>	<i>- / -</i>	<i>2 / 1.406</i>	<i>8 / 5.098</i>	<i>- / -</i>	<i>8 / 5.098</i>	<i>10 / 6.480</i>	<i>4 / 2.644</i>	<i>2 / 1.349</i>	<i>4 / 2.750</i>	<i>50 / 37.075</i>	<i>80 / 56.802</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 1.406</i>	<i>- / 5.098</i>	<i>- / -</i>	<i>- / 5.098</i>	<i>- / 6.480</i>	<i>- / 2.644</i>	<i>- / 1.349</i>	<i>- / 2.750</i>	<i>- / 37.075</i>	<i>- / 56.802</i>	
Support (All Modification Items)													
3.1) ILS	- / -	- / -	- / 0.345	- / 0.387	- / -	- / 0.387	- / 0.310	- / 0.125	- / 0.075	- / 0.025	- / -	- / 1.267	
3.2) Data	- / -	- / -	- / 0.150	- / 0.150	- / -	- / 0.150	- / 0.150	- / 0.080	- / 0.035	- / -	- / -	- / 0.565	
3.3) Training Equip.	- / -	- / -	- / -	- / 1.441	- / -	- / 1.441	- / 0.761	- / 0.050	- / 0.030	- / -	- / -	- / 2.282	
3.4) Support Equip.	- / -	- / -	- / 0.195	- / 0.650	- / -	- / 0.650	- / 0.080	- / 0.042	- / 0.045	- / 0.015	- / -	- / 1.027	
3.5) Other Support	- / -	- / -	- / 0.454	- / 0.460	- / -	- / 0.460	- / 0.448	- / 0.291	- / 0.201	- / 0.164	- / -	- / 2.018	
<i>Subtotal: Support</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 1.144</i>	<i>- / 3.088</i>	<i>- / -</i>	<i>- / 3.088</i>	<i>- / 1.749</i>	<i>- / 0.588</i>	<i>- / 0.386</i>	<i>- / 0.204</i>	<i>- / -</i>	<i>- / 7.159</i>	
Installation													
<i>Modification Item 1 of 1: MQ-8 Payloads (OSIP 010-17)</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.159</i>	<i>- / -</i>	<i>- / 0.159</i>	<i>- / 0.636</i>	<i>- / 0.795</i>	<i>- / 0.318</i>	<i>- / 0.159</i>	<i>- / 4.580</i>	<i>- / 6.647</i>	
<i>Subtotal: Installation</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.159</i>	<i>- / -</i>	<i>- / 0.159</i>	<i>- / 0.636</i>	<i>- / 0.795</i>	<i>- / 0.318</i>	<i>- / 0.159</i>	<i>- / 4.580</i>	<i>- / 6.647</i>	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	2.550	8.345	-	8.345	8.865	4.027	2.053	3.113	41.655	70.608	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 3 / MQ-8 Payloads (OSIP 010-17)

Modification Item 1 of 1: MQ-8 Payloads (OSIP 010-17)

Manufacturer Information

Manufacturer Name: TBD - Radar (MQ-8C)	Manufacturer Location: TBD
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates		Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021	Mar 2022

Installation Information

Method of Implementation: Depot (FRC):: Installation Name: Radar Upgrade II A Kits

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	1 / 0.159	- / -	1 / 0.159	- / -	- / -	- / -	- / -	- / -	1 / 0.159
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.636	- / -	- / -	- / -	- / -	4 / 0.636
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.795	- / -	- / -	- / -	5 / 0.795
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.318	- / -	- / -	2 / 0.318
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.159	- / -	1 / 0.159
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.330	2 / 0.330
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 4.250	25 / 4.250
Total	- / -	- / -	- / -	1 / 0.159	- / -	1 / 0.159	4 / 0.636	5 / 0.795	2 / 0.318	1 / 0.159	27 / 4.580	40 / 6.647

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	2	-	-	2	3	-	-	1	1	-	-	1	-	27	40
Out	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	2	-	-	2	3	-	-	1	1	-	-	1	-	27	40

Method of Implementation (Organic): Radar Upgrade II B Kits **Installation Quantity:** 40

Footnotes:

⁽⁹⁾ FY16 funding for the Radar Upgrade was realigned from OSIP 021-14 and placed here for clarification of cost, management of reporting requirements, and program execution. Radar kits were previously aligned to cost elements 1.1.1 and 2.1.1 in the PB16 budget submission

⁽¹⁰⁾ Radar non-recurring provides for engineering installation procedures for incorporating the B-kit into fielded air vehicles.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0589 / RQ-7 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305233N
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	93.536	-	3.773	3.534	-	3.534	-	-	-	-	-	100.843
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	93.536	-	3.773	3.534	-	3.534	-	-	-	-	-	100.843
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	93.536	-	3.773	3.534	-	3.534	-	-	-	-	-	100.843

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line funds modifications to the RQ-7B Shadow Unmanned Aircraft System (UAS) and associated support systems. The RQ-7B Shadow UAS provides dedicated Reconnaissance, Surveillance and Target Acquisition, Intelligence, Battle Damage Assessment and Force Protection to the Marine Air-Ground Task Force. The RQ-7B Shadow UAS provides the Marine Expeditionary Force with critical battlefield intelligence and targeting information in the rapid cycle time required for success at the tactical level.

The RQ-7B Shadow UAS consists of four air vehicles each configured with an Electro-Optical/Infra-Red sensor payload, launcher, ground control stations, attrition engine, support equipment, and Government furnished equipment, which includes power generation communications equipment, automated recovery equipment, remote video terminals, vehicle mounted shelters, and High Mobility Multipurpose Wheeled Vehicles with trailer(s). Each system is equipped with one maintenance section multifunctional vehicle and is supported by a mobile maintenance facility.

The RQ-7B Shadow UAS modifications are procured through the Army on the Army's Shadow Tactical UAS contracts and are identical to the Army's system. Every effort is made to ensure that the Marine Corps RQ-7B Shadow UAS configuration matches the Army's such that combat units maintain maximum interoperability, maintainability, and combat effectiveness.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0589 / RQ-7 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305233N

Line Item MDAP/MAIS Code: N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / RQ-7 UAV Retrofits (OSIP 006-11) (Added Capability)			- / 93.536	- / -	- / 3.773	- / 3.534	- / -	- / 3.534
P-40	Total Gross/Weapon System Cost			- / 93.536	- / -	- / 3.773	- / 3.534	- / -	- / 3.534

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / RQ-7 UAV Retrofits (OSIP 006-11) (Added Capability)			- / -	- / -	- / -	- / -	- / -	- / 100.843
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 100.843

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
Decrease in RQ-7 SERIES by \$0.151M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

In FY16, the RQ-7 program will procure thirty-two (32) PRC-152A radios, weatherization kits, and other equipment, if so designated, to maintain Marine Corps RQ-7B Shadow Unmanned Aircraft Systems (UAS) interoperability and commonality with Army systems and to permit full integration of Shadow generated information into the digital interoperability environment.

FY2017 requested funding will procure thirty-six (36) propulsion system upgrades, and other equipment, if so designated based on changing priorities to maintain Marine Corps RQ-7B Shadow UAS interoperability and commonality with Army systems and the Integrated Digital Environment; and includes new equipment training for the tactical common data link modification for USMC operational units upon delivery of the RQ-7Bv2 Shadow UAS.

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0589 / RQ-7 Series	Modification Number / Title: 1 / RQ-7 UAV Retrofits (OSIP 006-11)
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	93.536	-	3.773	3.534	-	3.534	-	-	-	-	-	100.843
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	93.536	-	3.773	3.534	-	3.534	-	-	-	-	-	100.843
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	93.536	-	3.773	3.534	-	3.534	-	-	-	-	-	100.843

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

In FY16, the RQ-7 program will procure thirty-two (32) PRC-152A radios, weatherization kits, and other equipment, if so designated, to maintain Marine Corps RQ-7B Shadow Unmanned Aircraft System (UAS) interoperability and commonality with Army systems and to permit full integration of Shadow generated information into the digital interoperability environment.

FY2017 requested funding will procure thirty-six (36) propulsion system upgrades, and other equipment, if so designated to maintain Marine Corps RQ-7B Shadow UAS interoperability and commonality with Army systems and the Integrated Digital Environment; and includes new equipment training for the tactical common data link for USMC operational units upon delivery of the RQ-7Bv2 Shadow UAS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONE:

Planned Initial Operational Capability for Tactical Common Data Link (TCDL) in FY2015.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0589 / RQ-7 Series					Modification Number / Title: 1 / RQ-7 UAV Retrofits (OSIP 006-11)			
Models of Systems Affected: RQ-7B Shadow UAS				Modification Type: Added Capability				Related RDT&E PEs: 0305233N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: RQ-7 UAV Retrofits (OSIP 006-11)</i>													
B Kits													
Recurring													
1.1.1) P3I Upgrades/Retrofits - Organic ⁽¹⁾	35 / 92.965	- / -	32 / 3.773	36 / 3.534	- / -	36 / 3.534	- / -	- / -	- / -	- / -	- / -	103 / 100.272	
<i>Subtotal: Recurring</i>	- / 92.965	- / -	- / 3.773	- / 3.534	- / -	- / 3.534	- / -	- / -	- / -	- / -	- / -	- / 100.272	
Non-Recurring													
1.2.1) Installation Equipment N/R - Organic	- / 0.571	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.571	
<i>Subtotal: Non-Recurring</i>	- / 0.571	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.571	
<i>Subtotal: RQ-7 UAV Retrofits (OSIP 006-11)</i>	35 / 93.536	- / -	32 / 3.773	36 / 3.534	- / -	36 / 3.534	- / -	- / -	- / -	- / -	- / -	103 / 100.843	
<i>Subtotal: Procurement, All Modification Items</i>	- / 93.536	- / -	- / 3.773	- / 3.534	- / -	- / 3.534	- / -	- / -	- / -	- / -	- / -	- / 100.843	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	93.536	-	3.773	3.534	-	3.534	-	-	-	-	-	100.843	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0589 / RQ-7 Series	Modification Number / Title: 1 / RQ-7 UAV Retrofits (OSIP 006-11)
Modification Item 1 of 1: RQ-7 UAV Retrofits (OSIP 006-11)		
Installation Information		
Method of Implementation (Organic): P3I Upgrades/Retrofits		Installation Quantity: 103

Footnotes:
(1) FY2016 funding will procure 32 PRC-152A radios, weatherization kits, and other equipment. FY2017 funding will procure 36 propulsion system upgrades, and new equipment training.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 212	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	909.467	109.152	145.308	141.545	8.740	150.285	171.399	196.795	169.068	181.154	895.248	2,927.876
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	909.467	109.152	145.308	141.545	8.740	150.285	171.399	196.795	169.068	181.154	895.248	2,927.876
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	909.467	109.152	145.308	141.545	8.740	150.285	171.399	196.795	169.068	181.154	895.248	2,927.876

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the Navy's V-22 aircraft. The V-22 is a tilt rotor, Vertical/Short Takeoff and Landing (V/STOL) aircraft for Joint Service application. The Navy acts as the lead service with support from the United States Air Force (USAF) co-located in the V-22 Program Office. The V-22 Program is designed to provide an aircraft to meet the amphibious/vertical assault needs of the United States Marine Corps, the strike rescue needs of the Navy, and the special operations needs of the USAF and United States Special Operations Command (USSOCOM). The MV-22 variant is replacing the CH-46E in the Marine Corps and will supplement the H-60 in the Navy. The CV-22 variant replaced the MH-53J, and will provide a new capability and augment the MC-130 in the USAF/USSOCOM inventory for special operations infiltration, exfiltration, and resupply missions. The V-22 is capable of flying over 2,100 nautical miles with a single refueling, giving the Services the advantage of a V/STOL aircraft able to rapidly self-deploy to any location in the world. This line item funds modifications in support of the 263 MV-22's in service by end of Fiscal Year (FY) 2016 and will support an additional 20 aircraft, for a total of 283 to be delivered through FY 2017 out of 360 MV-22 and 48 Navy Variant for a program of record total of 408.

The overall goal of the modifications budgeted in FY 2017 is to maintain commonality, implement structural safety and reliability improvements, and improve capability. These modifications will also improve readiness, increase aircraft availability, and decrease operating costs. FY 2017 focus will be on reducing flight hour costs, and improving Time On Wing, as reflected in the Readiness Operational Safety Improvement Program.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0590 / V-22 (Tilt/Rotor Acft) Osprey

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 212 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01) (Safety, Reliability, Increased Service Life, Improved Mission Capability)			- / 833.532	- / 82.669	- / 99.482	- / 92.614	- / 8.740	- / 101.354
P-3a	2 / MV-22 Readiness (OSIP 028-12) (Reliability, Cost-per-flight hour, Reduction in Total Ownership cost)			- / 75.935	- / 26.483	- / 45.826	- / 48.931	- / -	- / 48.931
P-3a	3 / Aerial Refueling (008-18) (Performance, Capability)			- / 0.000	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 909.467	- / 109.152	- / 145.308	- / 141.545	- / 8.740	- / 150.285

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01) (Safety, Reliability, Increased Service Life, Improved Mission Capability)			- / 77.255	- / 86.264	- / 74.671	- / 71.320	- / 339.235	- / 1,765.782
P-3a	2 / MV-22 Readiness (OSIP 028-12) (Reliability, Cost-per-flight hour, Reduction in Total Ownership cost)			- / 77.144	- / 88.831	- / 66.913	- / 76.134	- / 396.084	- / 902.281
P-3a	3 / Aerial Refueling (008-18) (Performance, Capability)			- / 17.000	- / 21.700	- / 27.484	- / 33.700	- / 159.929	- / 259.813
P-40	Total Gross/Weapon System Cost			- / 171.399	- / 196.795	- / 169.068	- / 181.154	- / 895.248	- / 2,927.876

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
MV-22 Correction of Deficiencies, Operational Safety Improvement Program (OSIP) 22-01, provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve MV-22 system operations. ECPs are implemented to coincide with resources and aircraft availability. These changes provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the MV-22 platform. This modification program may be required to provide timely remedial action for any aircraft system, component or structure.

ECPs addressing readiness degraders impacting MV-22 reliability, maintainability, availability, and cost per flight hour are captured under OSIP 28-12. This Operational Safety Improvement Program is established for the correction of readiness degraders impacting MV-22 cost per flight hour, Reliability Maintainability and Availability (RM&A), obsolescence, and reduction of life-cycle costs. These modifications (MODs) will be accomplished by field retrofit and implemented to coincide with resources and aircraft availability. In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the V-22 Aircraft platform.

OCO:
Provide Advanced Ballistic Stopping System (ABSS) mission kits for 30 SPMAGTF-CR aircraft to improve ballistic protection for personnel and passengers in the jump seat and cabin. The installed system is capable of stopping a 7.62X54R mm mild steel core round at a velocity of 2,560 feet per second. The system protects the jump seat, the entire cabin floor to include the loading ramp, and extends up the sidewall two feet. The system allows access to all existing aircraft tie down points and the cargo hook well doors. The ballistic material is segmented/modular to allow partial installation based on mission requirements

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey				Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	833.532	82.669	99.482	92.614	8.740	101.354	77.255	86.264	74.671	71.320	339.235	1,765.782
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	833.532	82.669	99.482	92.614	8.740	101.354	77.255	86.264	74.671	71.320	339.235	1,765.782
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	833.532	82.669	99.482	92.614	8.740	101.354	77.255	86.264	74.671	71.320	339.235	1,765.782
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

MV-22 Correction of Deficiencies provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve MV-22 system operations. ECPs are implemented to coincide with resources and aircraft availability. These changes provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the MV-22 platform. This modification program may be required to provide timely remedial action for any aircraft system, component or structure.

Current/Active ECPs:

AVIONICS: Avionics modifications to the V-22 will improve display reliability, eliminate communication security issues and alleviate parts obsolescence/vendor problems. Changes to the V-22 avionics will include: Display System upgrade, Cockpit Inter Communication System modification, upgraded Mission Computer, updated Data Transfer Module, Control Display Unit/Engine Instrument Caution Advisory System upgrade, Control Display Unit Keyboard upgrade, and Avionics Interface Units upgrades. As well as Mission System Upgrade and Midwing Processing Unit obsolescence replacement. Software modifications are controlled by the functional requirements document (FRD) and introduced to the fleet for release every two years, or as needed based on emerging fleet requirements. Modifications to the various avionics software configuration items (CIs) being incorporated into the fleet aircraft also require updates to the Collaborative Automated Maintenance Environment Optimized (CAMEO), Integrated Electronic Technical Manuals (IETMs); and mission planning. Specifically for the mission planning system, the V-22 Unique Planning Component (UPC) for the Joint Mission Planning System (JMPS) must implement frequent software updates in conjunction with production aircraft performance and software changes. Changes to the JMPS UPC in accordance with the FRD must include mission planning specific software regression tests to ensure proper operation and integration with other aircraft UPCs within JMPS.

POWER TRANSMISSION AND CONTROL: Changes to the V-22 Power Transmission and Control System will improve reliability and maintainability. Changes to the V-22 Power Transmission and Control System will include: swashplate reliability upgrades, engine gimbal ring/spherical bearing installation revision, updated refuel/defuel valve, bull gear shroud and engine gimbal ring.

COCKPIT: Changes to the V-22 cockpit will improve crew safety, mission suitability and overall reliability. Changes to the V-22 cockpit include: night vision goggle compatible hardware, upgraded inertial reels, upgraded pilot and co-pilot restraint system, throttle control lever soft stop modification, and improved rain removal.

STRUCTURAL: Structural changes to the V-22 will increase survivability, improve maintainability and aircraft availability, eliminate component interferences, improve suitability and correct safety related issues. Structural changes include: forward sponson fuel bladder access redesign/install powder panels, environmental control unit Ram air barrier filter, avionics left hand mounting tray, aft upper door strut, add manual drive decal, fold blades in high winds and modified trunnion fitting.

RELIABILITY & MAINTAINABILITY FIXES: Includes Corrective Action Plans to make the aircraft compliant with Operation Requirements Document requirements.

ECP-708 Block A to Block B Upgrades: Upgrade Block A aircraft to Block B due to configuration changes required to meet mission requirements. Changes are associated with the aircraft Propulsion/Drive, Electrical, Avionics, Hydraulics, and Structure/Airframe.

ECP-716: Infra-Red Suppressor Redesign, Provide a more reliable configuration to items that have contributed to poor system reliability and identify a repair kit for the aircraft Infra-Red Suppressor system.

ECP-860: K-Voice and Data Recorder (KVADR) replaces the Government Furnished Equipment Flight Incident Recorder due to obsolescence issues and diminishing manufacturing sources for parts.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)
<p>Slim Multifunction Display (MFD) and Advanced MFD: or flight displays in cockpit, thirty lb. weight savings, less cooling and power requirements, significant obsolescence avoided, greater pilot display capabilities.</p> <p>Blue Force Tracker (BFT) Block C MTX kits: Provides capability to communicate via established BFT network; providing aircraft current position and status to network subscribers (Joint Force Members) and to view other subscribers position and current status on graphic display. Incorporation will reduce fratricide risk and improve operational coordination.</p> <p>Blue Force Tracker (BFT) II Netted Weather: BFT II Netted Weather will supply an uninterrupted stream of weather and airspace information directly to the MV-22 cockpit via satellite.</p> <p>ECP-844: Interim Defense Weapon System (IDWS): Capability improvements to IDWS, currently in Interim Contract Support phase, IOC was October 2012 and projected MSD is October 2015. Employment of IDWS has resulted in identification of necessary modifications to improve effectiveness, lethality, and interoperability of the system. This modification provides necessary capability improvements identified during operational use and interim contract support.</p> <p>V-22 Integrated Aircraft Survivability Equipment (IASE): Will correct deficiencies of the current RADAR warning system, replace the existing Missile Warning System, implement an active Infra-red countermeasure system, upgrade current countermeasures dispenser and provide integrated threat information on current aircraft main flight displays.</p> <p>Main Landing Gear Fire Suppression - increase the survivability by reducing the landing gear bay vulnerability by making that area more tolerant of battle damage, specifically fires.</p> <p>Data Transfer Unit: Replaces obsolete unit.</p> <p>Enhanced Crash Survivable Memory Unit (Cockpit Voice Recorder): To protect aircraft flight information and facilitate post-mishap investigations, a crash-survivable recorder capable of recording a/c parametric data and aircrew voice communications.</p> <p>FLIR ELAP: Upgrade to the Forward Looking Infrared (FLIR) System Electronics Unit (SEU) with an Enhanced Local Area Processing (ELAP) card to improve visibility for the pilot</p> <p>FLIR SEU: Procurement of System Electronics Units (SEU's) for MV-22 aircraft being modified from Block A to Block B configuration. The SEU provides digital signal processing of the image obtained via the FLIR optics in the current FLIR unit, and passes the image data to the MV-22 mission computer.</p> <p>Traffic Collision Avoidance System (TCAS): Procurement of kits and installations of the Honeywell MILACAS-XR TCAS into MCOI-equipped MV-22 Block B and C aircraft. MILACAS-XR is identical to the TCAS system already in use aboard the CV-22, and will advise MV-22 pilots of other air traffic in proximity to the MV-22, as well as resolution advisories of what course to fly to avoid colliding with the threat aircraft.</p> <p>Gen 5 ARC-210 radio: provides LOS single-channel voice communication in the 30-88 MHz FM, 118-174 MHz AM/FM, and 225-400 MHz AM/FM bands, as well as LOS Single Channel Ground and Airborne System (SINGGARS) and Havequick voice communications and provides the aircrew secure military Ultra High Frequency (UHF) Satellite Communications (SATCOM). Each radio has a notch filter which filters out the commercial 88-108 FM band from interfering with radio communication.</p> <p>Software Reprogrammable Payload (SRP) - A single common payload module that is open architecture government owned, flexible, and reconfigurable to support simultaneous missions and applications making maximum use of available bandwidth and ensuring interoperability. Provides a bridge and translator to allow various systems/waveforms to collaborate and provides the V-22 operator and passenger with a common operating picture.</p> <p>Digital Interoperability provides situational awareness, enhanced command and control, remote and operation of payloads, and tracking of Marines and cargo. It also allows for collaboration and cooperation in a Joint environment.</p> <p>Enhanced Standby Flight Instrument: A digital indicator which replaces the legacy analog standby instrument cluster for aircraft reference (attitude, altitude, etc.).</p> <p>ECP-559: Aircraft Maintenance Trainer (AMT): AMT #2, Improves training and pilot proficiency by incorporating modifications to the AMT #2 to reflect most current Block A and Block B aircraft configuration.</p> <p>ECP-803: AMT #3, Improves training and pilot proficiency by incorporating modifications to the AMT #3 to reflect most current Block A and Block B aircraft configuration.</p> <p>ECP-Training Equipment: Flight Training Device (FTD) UPGRADES: Improves training and pilot proficiency by incorporating modifications to the FTD #1 to reflect most current aircraft configuration as directed by Blue Ribbon Panel.</p> <p>ECP-Training Equipment: Airframe Part Task Trainer, Incorporate Block 'B' configuration changes.</p> <p>ECP-Training Equipment: AMT #4, Improves training and pilot proficiency by incorporating modifications to the AMT #4 to reflect most current Block aircraft configuration.</p> <p>ECP-Training Equipment: Full Fidelity Simulator (FFS) UPGRADES: Improves training and pilot proficiency by incorporating modifications to the FFS #1-4 to reflect most current aircraft configuration as directed by Blue Ribbon Panel.</p> <p>ECP-Training Equipment: FTD UPGRADES: Improves training and pilot proficiency by incorporating modifications to the FTD #1-14 to reflect most current aircraft configuration as directed by Blue Ribbon Panel.</p> <p>FUTURE ECPs:</p> <p>BLOCK B, and BLOCK C: Major configuration changes are associated with the aircraft Propulsion/Drive, Electrical, Avionics, Hydraulics, Structure/Airframe, Fuel, Software, and Environmental Control System. Specifically included are Nacelle changes, Avionics, Blade Fold Harness, Fuel Probe, Active Vibration Suppression System, Constant Frequency Generator and Variable Frequency Generator. Additional configuration changes include Effectiveness and Suitability and Enhanced Capability. ECPs for Reliability & Maintainability changes, (Ice Protection and Clam Shell Doors) are configuration items associated with production Block B and Block C changes. Aircraft Retrofits are implemented to coincide with resources and aircraft availability, stand-alone retrofit ECPs are generated. These Retrofit ECPs are the implementation of the approved production Block Configuration changes.</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

FY17 New Starts include: Digital Interoperability, Software Reprogrammable Payload, SLIM MFD, Gen 5 Radio, Enhanced Standby Flight Instrument.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Models of Systems Affected: V-22 Series	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability	Related RDT&E PEs: 0604262N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement												
<i>Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)</i>												
A Kits												
Recurring												
1.1.1) BFT II Block C MTX Kits - Organic	- / -	18 / 0.144	18 / 0.147	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.291
1.1.2) BFT II Netted Weather - Organic	- / -	- / -	- / -	196 / 2.999	- / -	196 / 2.999	- / -	- / -	- / -	- / -	- / -	196 / 2.999
1.1.3) Block A to B - NonOrganic ⁽¹⁾	21 / 96.100	4 / 18.932	2 / 9.655	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 124.687
1.1.4) Block A to B GFE - Organic	21 / 4.106	4 / 1.186	2 / 0.604	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 5.896
1.1.5) Data Transfer Unit - Organic	- / -	- / -	47 / 1.955	60 / 2.543	- / -	60 / 2.543	60 / 2.591	60 / 2.640	45 / 2.018	34 / 1.554	- / -	306 / 13.301
1.1.6) Digital Interoperability - NonOrganic	- / -	- / -	- / -	24 / 0.480	- / -	24 / 0.480	28 / 0.571	30 / 0.624	28 / 0.594	30 / 0.648	210 / 4.622	350 / 7.539
1.1.7) Digital Interoperability - GFE - Organic	- / -	- / -	- / -	24 / 4.560	- / -	24 / 4.560	28 / 5.421	30 / 5.924	28 / 5.634	30 / 6.150	210 / 43.877	350 / 71.566
1.1.8) Enhanced Crash Survivable Memory Unit (Cockpit Voice Recorder) - NonOrganic	77 / 2.112	19 / 0.714	25 / 0.945	48 / 1.848	- / -	48 / 1.848	48 / 1.886	48 / 1.920	15 / 0.612	- / -	- / -	280 / 10.037
1.1.9) Enhanced Standby Flight Instrument - NonOrganic	- / -	- / -	- / -	33 / 1.980	- / -	33 / 1.980	32 / 1.955	33 / 2.056	33 / 2.096	33 / 2.135	- / -	164 / 10.222
1.1.10) FLIR ELAP - NonOrganic	- / -	20 / 0.400	144 / 1.714	144 / 1.747	- / -	144 / 1.747	12 / 0.148	- / -	- / -	- / -	- / -	320 / 4.009
1.1.11) FLIR SEU - Organic	- / -	- / -	4 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.000
1.1.12) Gen 5 Radio ARC 210 - Organic	- / -	- / -	- / -	10 / 0.064	- / -	10 / 0.064	60 / 0.391	- / -	- / -	- / -	- / -	70 / 0.455
1.1.13) IR Suppressor - NonOrganic	68 / 5.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / 5.100
1.1.14) KVADR GFE - Organic	145 / 2.683	39 / 0.676	40 / 0.706	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	224 / 4.065
1.1.15) Main Landing Fire Suppression - NonOrganic	218 / 6.266	32 / 0.752	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	250 / 7.018
1.1.16) MV-22 Advanced Ballistic Stopping System (ABSS) - Organic	- / -	- / -	30 / 8.000	- / -	30 / 8.740	30 / 8.740	- / -	- / -	- / -	- / -	- / -	60 / 16.740
1.1.17) Slim MFD - NonOrganic	- / -	- / -	- / -	30 / 0.750	- / -	30 / 0.750	30 / 0.765	23 / 0.598	- / -	- / -	- / -	83 / 2.113
1.1.18) Software Reprogrammable Payload - NonOrganic	- / -	- / -	- / -	22 / 4.000	- / -	22 / 4.000	22 / 4.075	22 / 4.158	22 / 4.242	22 / 4.325	82 / 16.429	192 / 37.229
1.1.19) Traffic Collision Avoidance System (TCAS) - NonOrganic	- / -	- / -	24 / 5.592	25 / 5.936	- / -	25 / 5.936	20 / 4.838	45 / 11.094	44 / 11.053	17 / 4.352	- / -	175 / 42.865
1.1.20) V-22 Integrated Aircraft Survivability Equipment (IASE) - NonOrganic	- / -	24 / 19.512	24 / 19.882	18 / 15.196	- / -	18 / 15.196	12 / 10.322	12 / 10.519	12 / 10.718	12 / 10.922	106 / 98.314	220 / 195.385
1.1.21) Archived ECPs - Organic	4,490 / 331.068	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,490 / 331.068
1.1.22) PY Installs - Organic	- / 1.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.225
Subtotal: Recurring	- / 448.660	- / 42.316	- / 50.200	- / 42.103	- / 8.740	- / 50.843	- / 32.963	- / 39.533	- / 36.967	- / 30.086	- / 163.242	- / 894.810

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)			
Models of Systems Affected: V-22 Series					Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability					Related RDT&E PEs: 0604262N			
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 108.508	- / 10.001	- / 6.277	- / 3.312	- / -	- / 3.312	- / -	- / -	- / -	- / -	- / -	- / 128.098	
Subtotal: Non-Recurring	- / 108.508	- / 10.001	- / 6.277	- / 3.312	- / -	- / 3.312	- / -	- / -	- / -	- / -	- / -	- / 128.098	
B Kits													
Recurring													
2.1.1) Slim MFD - Organic	- / -	- / -	- / -	30 / 3.000	- / -	30 / 3.000	30 / 3.056	23 / 2.389	- / -	- / -	- / -	83 / 8.445	
2.1.2) Advanced MFD - Organic	- / -	- / -	- / -	45 / 4.500	- / -	45 / 4.500	45 / 4.586	45 / 4.672	45 / 4.762	45 / 4.852	12 / 1.318	237 / 24.690	
2.1.3) Enhanced Standby Flight Instrument - Organic	- / -	- / -	- / -	33 / 3.300	- / -	33 / 3.300	32 / 3.261	33 / 3.427	33 / 3.493	33 / 3.559	- / -	164 / 17.040	
2.1.4) V-22 IASE (DIRCM) - Organic ⁽²⁾	- / -	- / -	7 / 15.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 15.000	
2.1.5) Archived B Kits - Organic	72 / 3.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 3.800	
Subtotal: Recurring	- / 3.800	- / -	- / 15.000	- / 10.800	- / -	- / 10.800	- / 10.903	- / 10.488	- / 8.255	- / 8.411	- / 1.318	- / 68.975	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 0.577	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.577	
Subtotal: Non-Recurring	- / 0.577	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.577	
Subtotal: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)	5,112 / 561.545	160 / 52.317	367 / 71.477	742 / 56.215	30 / 8.740	772 / 64.955	459 / 43.866	404 / 50.021	305 / 45.222	256 / 38.497	620 / 164.560	8,455 / 1,092.460	
Subtotal: Procurement, All Modification Items	- / 561.545	- / 52.317	- / 71.477	- / 56.215	- / 8.740	- / 64.955	- / 43.866	- / 50.021	- / 45.222	- / 38.497	- / 164.560	- / 1,092.460	
Support (All Modification Items)													
3.2) Software Modifications ⁽³⁾	- / -	- / -	- / 0.500	- / 0.445	- / -	- / 0.445	- / 0.453	- / 0.462	- / 0.471	- / 0.480	- / 5.000	- / 7.811	
3.3) Data	- / 1.384	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.384	
3.4) Training Equipment ⁽⁴⁾	7 / 191.286	- / 3.379	- / 15.249	- / 17.872	- / -	- / 17.872	- / 15.846	- / 12.466	- / 15.635	- / 9.288	- / 58.830	7 / 299.851	
3.5) Support Equipment ⁽⁵⁾	- / 2.128	- / 1.135	- / 0.320	- / 2.538	- / -	- / 2.538	- / 3.202	- / 3.557	- / 2.227	- / 2.257	- / 11.285	- / 28.649	
3.6) ILS	- / 6.649	- / 0.200	- / 0.509	- / 0.520	- / -	- / 0.520	- / 0.530	- / 0.540	- / 0.550	- / 0.550	- / 2.695	- / 12.743	
3.7) Other Support	- / 29.768	- / 12.472	- / 8.956	- / 9.120	- / -	- / 9.120	- / 9.240	- / 9.417	- / 9.597	- / 9.780	- / 44.800	- / 143.150	
3.8) Interim Contractor Support	- / 2.825	- / 3.562	- / 0.428	- / 0.381	- / -	- / 0.381	- / 0.380	- / 0.280	- / 0.080	- / 0.080	- / -	- / 8.016	
Subtotal: Support	- / 234.040	- / 20.748	- / 15.962	- / 20.876	- / -	- / 20.876	- / 19.651	- / 26.722	- / 18.560	- / 22.435	- / 122.610	- / 501.604	
Installation													
Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)	- / 37.947	- / 9.604	- / 12.043	- / 15.523	- / -	- / 15.523	- / 13.738	- / 9.521	- / 10.889	- / 10.388	- / 52.065	- / 171.718	
Subtotal: Installation	- / 37.947	- / 9.604	- / 12.043	- / 15.523	- / -	- / 15.523	- / 13.738	- / 9.521	- / 10.889	- / 10.388	- / 52.065	- / 171.718	
Total													

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Models of Systems Affected: V-22 Series	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability	Related RDT&E PEs: 0604262N
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Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	833.532	82.669	99.482	92.614	8.740	101.354	77.255	86.264	74.671	71.320	339.235	1,765.782

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Exhibit P-3a, Individual Modification: PB 2017 Navy					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey		Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)		
Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)							
Manufacturer Information							
Manufacturer Name: Block A to B				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015					
Delivery Dates	Jun 2016	Jun 2017					
Manufacturer Name: Enhanced Crash Survivable Memory Unit				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 11			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019	
Delivery Dates	Jan 2017	Apr 2017	Oct 2017	Oct 2018	Oct 2019	Oct 2020	
Manufacturer Name: FLIR ELAP				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 10			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017			
Delivery Dates	Oct 2015	Oct 2016	Oct 2017	Oct 2018			
Manufacturer Name: V-22 Integrated Aircraft Survivability Equipment				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 8			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jul 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates	Mar 2016	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Main Landing Fire Suppression				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 7				Production Leadtime (in Months): 6			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Apr 2015						
Delivery Dates	Oct 2015						
Manufacturer Name: SLIM MFD				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 4			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jun 2017	Jun 2018	Jun 2019		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy						Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey			Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)	
Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)							
Manufacturer Information							
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Delivery Dates			Oct 2017	Oct 2018	Oct 2019		
Manufacturer Name: Traffic Collision Avoidance System (TCAS)				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 8				Production Leadtime (in Months): 5			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		May 2016	May 2017	May 2018	May 2019	May 2020	May 2021
Delivery Dates		Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Digital Interoperability				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates			Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Enhanced Standby Flight Instrument				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates				Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Software Reprogrammable Payload				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 7			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021
Delivery Dates			Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: IR Suppressor				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 21			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Drive-In Mod:: Installation Name: Block A to B

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	15 / 35.359	4 / 8.563	2 / 4.363	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	21 / 48.285
FY 2015	- / -	- / -	1 / 2.063	3 / 6.554	- / -	3 / 6.554	- / -	- / -	- / -	- / -	- / -	4 / 8.617
FY 2016	- / -	- / -	- / -	1 / 2.184	- / -	1 / 2.184	1 / 2.229	- / -	- / -	- / -	- / -	2 / 4.413
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 35.359	4 / 8.563	3 / 6.426	4 / 8.738	- / -	4 / 8.738	1 / 2.229	- / -	- / -	- / -	- / -	27 / 61.315

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	15	1	1	1	1	1	1	-	1	1	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
Out	15	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	27

Method of Implementation: Contractor Drive In Mod:: Installation Name: Digital Interoperability

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.960	- / -	- / -	- / -	- / -	24 / 0.960
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.141	- / -	- / -	- / -	28 / 1.141
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.247	- / -	- / -	30 / 1.247
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.186	- / -	28 / 1.186
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.260	30 / 1.260
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	210 / 8.706	210 / 8.706
Total	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.960	28 / 1.141	30 / 1.247	28 / 1.186	240 / 9.966	350 / 14.500

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Drive In Mod:: Installation Name: Digital Interoperability

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	7	7	7	7	7	7	8	8	7	7	7	7	240	350
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	7	7	7	7	7	7	8	8	7	7	7	7	240	350

Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: Enhanced Crash Survivable Memory Unit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	61 / 0.566	16 / 0.142	- / 0.000	16 / 0.142	- / -	- / -	- / -	- / -	- / 0.000	77 / 0.708
FY 2015	- / -	- / -	- / -	19 / 0.182	- / -	19 / 0.182	- / -	- / -	- / -	- / -	- / -	19 / 0.182
FY 2016	- / -	- / -	- / -	25 / 0.243	- / -	25 / 0.243	- / -	- / -	- / -	- / -	- / -	25 / 0.243
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.462	- / -	- / -	- / -	- / -	48 / 0.462
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.471	- / -	- / -	- / -	48 / 0.471
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.480	- / -	- / -	48 / 0.480
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.153	- / -	15 / 0.153
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	61 / 0.566	60 / 0.567	- / -	60 / 0.567	48 / 0.462	48 / 0.471	48 / 0.480	15 / 0.153	- / -	280 / 2.699

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	15	15	15	16	16	16	16	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	5	5	5	-	-	280
Out	-	-	-	-	-	15	15	15	16	16	16	16	12	12	12	12	12	12	12	12	12	12	12	12	12	12	5	5	5	-	-	280	

Method of Implementation: Contractor Drive In Mod:: Installation Name: Enhanced Standby Flight Instrument

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Drive In Mod:: Installation Name: Enhanced Standby Flight Instrument

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	33 / 1.320	- / -	- / -	- / -	- / -	33 / 1.320
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 1.304	- / -	- / -	- / -	32 / 1.304
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 1.371	- / -	- / -	33 / 1.371
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 1.397	- / -	33 / 1.397
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 1.423	33 / 1.423
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	33 / 1.320	32 / 1.304	33 / 1.371	33 / 1.397	33 / 1.423	164 / 6.815

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	8	8	9	8	8	8	8	8	8	8	8	9	8	8	8	9	33	164
Out	-	-	-	-	-	-	-	-	-	-	-	-	8	8	9	8	8	8	8	8	8	8	8	9	8	8	8	9	33	164

Method of Implementation: Contractor Field Modification:: Installation Name: FLIR ELAP

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	20 / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.120
FY 2016	- / -	- / -	- / -	144 / 0.880	- / -	144 / 0.880	- / -	- / -	- / -	- / -	- / -	144 / 0.880
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	144 / 0.897	- / -	- / -	- / -	- / -	144 / 0.897
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.075	- / -	- / -	- / -	12 / 0.075
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	20 / 0.120	144 / 0.880	- / -	144 / 0.880	144 / 0.897	12 / 0.075	- / -	- / -	- / -	320 / 1.972

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Field Modification:: Installation Name: FLIR ELAP

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	-	5	5	5	5	36	36	36	36	36	36	36	36	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	5	5	5	5	36	36	36	36	36	36	36	36	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: IR Suppressor

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	59 / 0.789	8 / 0.148	1 / 0.019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	68 / 0.956
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	59 / 0.789	8 / 0.148	1 / 0.019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / 0.956

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	59	2	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	59	2	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method of Implementation: Navy Field Modification:: Installation Name: Main Landing Fire Suppression

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	148 / 1.799	54 / 0.893	16 / 0.136	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	218 / 2.828

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Navy Field Modification:: Installation Name: Main Landing Fire Suppression

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	32 / 0.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.480
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	148 / 1.799	54 / 0.893	48 / 0.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	250 / 3.308

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	148	14	14	14	12	13	14	11	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250
Out	148	14	14	14	12	13	14	11	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250

Method of Implementation: Contractor Field Modification:: Installation Name: Slim MFD

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.300	- / -	- / -	- / -	- / -	30 / 0.300
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.306	- / -	- / -	- / -	30 / 0.306
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 0.239	- / -	- / -	23 / 0.239
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.300	30 / 0.306	23 / 0.239	- / -	- / -	83 / 0.845

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Field Modification:: Installation Name: Slim MFD

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	8	8	7	7	8	8	6	6	6	5	-	-	-	-	-	-	83
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	8	8	7	7	8	8	6	6	6	5	-	-	-	-	-	-	83

Method of Implementation: Contractor Drive In Mod:: Installation Name: Software Reprogrammable Payload

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.205	- / -	- / -	- / -	- / -	22 / 3.205
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.121	- / -	- / -	- / -	22 / 3.121
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.334	- / -	- / -	22 / 3.334
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.397	- / -	22 / 3.397
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.454	22 / 3.454
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / 12.874	82 / 12.874
Total	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.205	22 / 3.121	22 / 3.334	22 / 3.397	104 / 16.328	192 / 29.385

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	6	6	5	5	6	6	5	5	6	6	5	5	6	6	104	192
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	6	6	5	5	6	6	5	5	6	6	5	5	6	6	104	192

Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: Traffic Collision Avoidance System (TC)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: Traffic Collision Avoidance System (TC)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	24 / 0.960	- / -	24 / 0.960	- / -	- / -	- / -	- / -	- / -	24 / 0.960
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	25 / 1.019	- / -	- / -	- / -	- / -	25 / 1.019
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.830	- / -	- / -	- / -	20 / 0.830
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 1.902	- / -	- / -	45 / 1.902
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 1.895	- / -	44 / 1.895
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.748	17 / 0.748
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	24 / 0.960	- / -	24 / 0.960	25 / 1.019	20 / 0.830	45 / 1.902	44 / 1.895	17 / 0.748	175 / 7.354

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	7	5	5	5	5	11	11	11	12	11	11	11	11	17	175
Out	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	7	5	5	5	5	11	11	11	12	11	11	11	11	17	175

Method of Implementation: Contractor Drive-In Modification:: Installation Name: V-22 Integrated Aircraft Survivability Equipme

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	24 / 4.296	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.296
FY 2016	- / -	- / -	- / -	24 / 4.378	- / -	24 / 4.378	- / -	- / -	- / -	- / -	- / -	24 / 4.378
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	18 / 3.346	- / -	- / -	- / -	- / -	18 / 3.346
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.273	- / -	- / -	- / -	12 / 2.273
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.316	- / -	- / -	12 / 2.316
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.360	- / -	12 / 2.360
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.400	12 / 2.400
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 21.200
Total	- / -	- / -	24 / 4.296	24 / 4.378	- / -	24 / 4.378	18 / 3.346	12 / 2.273	12 / 2.316	12 / 2.360	118 / 23.600	220 / 42.569

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation: Contractor Drive-In Modification:: Installation Name: V-22 Integrated Aircraft Survivability Equipme

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	8	8	8	6	6	6	6	4	4	5	5	3	3	3	3	3	3	3	3	3	3	3	3	118	220
Out	-	-	-	-	-	-	8	8	8	6	6	6	6	4	4	5	5	3	3	3	3	3	3	3	3	3	3	3	3	118	220

Method of Implementation (Organic): BFT II Block C MTX Kits	Installation Quantity: 36
Method of Implementation (Organic): BFT II Netted Weather	Installation Quantity: 196
Method of Implementation (Organic): Block A to B GFE	Installation Quantity: 27
Method of Implementation (Organic): Data Transfer Unit	Installation Quantity: 306
Method of Implementation (Organic): Digital Interoperability - GFE	Installation Quantity: 350
Method of Implementation (Organic): FLIR SEU	Installation Quantity: 4
Method of Implementation (Organic): Gen 5 Radio ARC 210	Installation Quantity: 70
Method of Implementation (Organic): KVADR GFE	Installation Quantity: 224
Method of Implementation (Organic): MV-22 Advanced Ballistic Stopping System (ABSS)	Installation Quantity: 60
Method of Implementation (Organic): Archived ECPs - Not Installed	Installation Quantity: 4490
Method of Implementation (Organic): Slim MFD	Installation Quantity: 83

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Modification Item 1 of 1: MV-22 Correction of Deficiencies and Pre Block A Through C (OSIP 022-01)

Installation Information

Method of Implementation (Organic): Advanced MFD	Installation Quantity: 237
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Method of Implementation (Organic): Enhanced Standby Flight Instrument	Installation Quantity: 164
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Method of Implementation (Organic): V-22 IASE (DIRCM)	Installation Quantity: 7
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Method of Implementation (Organic): Archived B Kits - Not Installed	Installation Quantity: 72
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Footnotes:

- (1) Block A to B: Contract and Install schedule reconciliation showed 2 kits being incorrectly identified as Prior Year (PY) installs. PY installs are actually 15. FY16 Installation reduced by congressional mark, which will delay installation of the delivered kit until FY18. Current install schedule and production lead times support planned installs. FY16 kits will be delivered in 3rd quarter FY17, supporting FY17 install.
- (2) V-22 Integrated Aircraft Survivability Equipment Directed Infrared Countermeasure (DIRCM) B Kits: FY16 Congressional Add, funding provided to procure V-22 IASE DIRCM B kits to support Urgent Universal Needs Statement. FY17 and out, DIRCM B kits are procured via PMA-272, BLI 0576.
- (3) Software modifications needed to incorporate ECP changes in order to correct deficiencies.
- (4) Training Equipment: The increase between FY16 and FY17 is due to the Block C modification of training simulators and maintenance trainers.
- (5) Support Equipment: The increase between FY16 and FY17 due to support equipment modification required to incorporate retrofit engineering change proposals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey				Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	75.935	26.483	45.826	48.931	-	48.931	77.144	88.831	66.913	76.134	396.084	902.281
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	75.935	26.483	45.826	48.931	-	48.931	77.144	88.831	66.913	76.134	396.084	902.281
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	75.935	26.483	45.826	48.931	-	48.931	77.144	88.831	66.913	76.134	396.084	902.281

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program is established for the correction of readiness degraders impacting MV-22 cost per flight hour, Reliability Maintainability and Availability (RM&A), obsolescence, and reduction of life-cycle costs. These modifications (MODs) will be accomplished by field retrofit and implemented to coincide with resources and aircraft availability. In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the V-22 Aircraft platform.

CURRENT/ACTIVE ECPs:

- 13 Wiring Harness: Improve harness reliability by reducing higher than expected failures due to chafing in the backshells and external environmental effects.
- Swash plate actuator: To improve cup seal leakage issues.
- Drive Tube: This effort will redesign drive tube which will eliminate an O level recurring inspection as it will decrease stresses at the lower end without affecting the interface with the mast.
- Ice Protection System: Strengthens component parts which have been prone to stress failures or fraying, Central De-ice Device and Nacelle Ice Protection Control Unit / Master Ice Protection Controller.
- Engine Air Particle Separator (EAPS): Start Valve Block A/B/10 Improvements to the Start Circuit side of the EAPS Start Valve Module, will provide for increase reliability.
- V-22 PRGB Input Quill/Clutch Redesign: To eliminate resident issues with Input Quill and clutch and to Purge Fleet of Thin Densd Chrome.
- Aircraft Bus Tie Circuit Reliability Improvement to provide the ability to power all buses with a battery start of the APU in the presence of a failed Regulated Converter.
- Sponson refuel-defuel valve: Decreased air ingestion by improving internal components to resist vibration during engine operation.
- Rudder Attachment Reliability Improvement: upgrade to bearings associated with the rear rudder.
- Upper and Lower Rod Ends Redesign to prevent excessive wear from normal proprotor operation.
- Gimbal Assembly Increase mean time between failures of the swashplate and hub assembly (which includes the gimbal assembly).
- Nose Landing Gear: Improvements in 3 major areas of the nose landing gear mechanisms are proposed, these include: Increase Mechanism Spring Moments, Reducing Torque Tube Pivot Friction and Revising the Mechanism Stops to improve reliability and rigging.
- Nacelle Heat Exchanger: Improve Nacelle components cooling capability by increasing part reliability, maintainability, and availability.
- PRGB Atmospheric Protection and Mast Seal Improvement: This initiative reduces corrosion related removals due to water intrusion.
- Drive Link/Hub Spring Change: The drive link and hub spring are critical components of the Proprotor Hub Assembly. This effort will reduce the the current safety risk and improve readiness of aircraft.
- Engine Thermo Couple Wire Harness: This ECP is a safety issue. This purpose of this change is to replace the copper wire with thermocouple wire (Chromel-Alumel material) and eliminate a source of Measured Gas Temperature calculation errors.
- Life Limited Airframe Corrections: This effort addresses Safety, Readiness, Reliability and Maintainability (R&M) issues that drive the need for the incorporation of Airframe Fatigue Test Program (AFTP) structural modifications onto the MV/CV-22 Osprey.
- Mission Computer Obsolescence Initiative (MCOI) Retrofit: MCOI replaces several components and allows planned capabilities to operate without memory processing power or memory storage. Has a positive Return on Investment (ROI) compared too many other costs that would be absorbed (avoidance).

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
<p>Infra-red Suppressor (IRS) Improvements: To improve the reliability of the IRS components. The IRS system consists of five major component groups, four of which are major degraders to MV-22 readiness. Funding will incorporate reliability improvements in the Transition Duct, Centerbody, Side Panel, and Coanda Tube components of the IRS. Improvements are required to allow IRS components to better withstand high heat and friction environment of the IRS system.</p> <p>Aft Sponson Fuel Tank (OCO): This improvement will increase combat range and endurance of the MV-22 and enable accomplishment of the Rapid Ground Refueling (RGR) mission with a single aircraft, greatly enhancing support to the Marine Air Ground Task Force during expeditionary operations.</p> <p>FUTURE ECPs: Electrical System re-design and reliability improvement effort. This effort will improve the Variable Frequency Generator (VFG) and Generator Control Unit (GCU) components. Increased V-22 electrical system reliability and capacity is required to accommodate demands on electrical power system as additional systems are added to the V-22. Electrical System Re-Design GCU Relocation: Integrates a new Variable Frequency Generator with a separate microprocessor controlled Generator Control Unit (GCU). Standby Flight Display (SFD): This item is obsolete with several key components that must be redesigned. No parts available to perform repairs beyond FY-16, must have qualified SFD or aircraft readiness degrades rapidly. Midair Conflict Avoidance System/Airborne Collision Avoidance System Long-term solution for Airborne Collision Avoidance to improve survivability by providing warning of impending mid-air collisions. High Power Amplifier/Low Noise Amplifier- Block C adds a new Satellite Communications antenna to the V-22, with input jacks available on the Block C Troop Commander panel.</p> <p>FY17 New Starts include: IRS Improvement COANDA Bellows</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)			
Models of Systems Affected: V-22 Series				Modification Type: Reliability, Cost-per-flight hour, Reduction in Total Ownership cost				Related RDT&E PEs: 0604262N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)													
A Kits													
Recurring													
1.1.1) 13 Wiring Harness - NonOrganic ⁽⁶⁾	106 / 5.457	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 5.457	
1.1.2) AC Bus Tie Circuit Reliability Improvement - NonOrganic	- / -	96 / 0.394	135 / 0.567	50 / 0.215	- / -	50 / 0.215	- / -	- / -	- / -	- / -	- / -	281 / 1.176	
1.1.3) Drive Link/Prop Rotor Hub Spring Change - NonOrganic	- / -	- / -	41 / 8.514	48 / 10.157	- / -	48 / 10.157	43 / 9.272	20 / 4.395	12 / 2.687	20 / 4.564	97 / 22.553	281 / 62.142	
1.1.4) Drive Tube - NonOrganic	- / -	- / -	41 / 1.181	48 / 1.406	- / -	48 / 1.406	48 / 1.435	48 / 1.464	48 / 1.493	48 / 1.517	- / -	281 / 8.496	
1.1.5) EAPS Start Valve Block - NonOrganic	41 / 0.673	36 / 0.602	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	77 / 1.275	
1.1.6) EAPS Start Valve Block A/B/C/10 Organic - Organic	- / -	36 / 0.216	36 / 0.220	36 / 0.225	- / -	36 / 0.225	36 / 0.229	48 / 0.311	- / -	- / -	- / -	192 / 1.201	
1.1.7) Electrical System Re-Design - GCU Relocation - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.448	48 / 2.495	48 / 2.542	201 / 10.846	345 / 18.331	
1.1.8) Engine Thermo Couple Wire Harness - NonOrganic	- / -	- / -	41 / 0.636	48 / 0.758	- / -	48 / 0.758	48 / 0.773	48 / 0.787	48 / 0.802	48 / 0.816	- / -	281 / 4.572	
1.1.9) Gimbal Assembly Part 2 - NonOrganic	- / -	- / -	41 / 0.865	48 / 1.032	- / -	48 / 1.032	48 / 1.051	48 / 1.070	24 / 0.545	24 / 0.557	48 / 1.134	281 / 6.254	
1.1.10) IPS (CDD) - NonOrganic	103 / 19.796	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	103 / 19.796	
1.1.11) IPS (CDD/NIPCU) - NonOrganic ⁽⁷⁾	34 / 1.860	5 / 1.300	4 / 1.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 4.220	
1.1.12) IPS (CDD/NIPCU) Organic - Organic	- / -	- / -	2 / 0.446	4 / 0.909	- / -	4 / 0.909	- / -	- / -	- / -	- / -	- / -	6 / 1.355	
1.1.13) IRS Improvements - COANDA Bellows - Organic	- / -	- / -	- / -	60 / 0.434	- / -	60 / 0.434	60 / 0.444	60 / 0.451	60 / 0.460	60 / 0.469	46 / 0.367	346 / 2.625	
1.1.14) IRS Improvements - Duct/Centerbody - Organic	- / -	- / -	- / -	- / -	- / -	- / -	36 / 7.142	56 / 11.321	24 / 4.944	30 / 6.304	200 / 42.867	346 / 72.578	
1.1.15) IRS Improvements - Side Panels - Organic	- / -	- / -	- / -	- / -	- / -	- / -	36 / 15.107	56 / 23.946	24 / 10.457	30 / 13.333	200 / 90.665	346 / 153.508	
1.1.16) Life Limited Airframe Corrections - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	18 / 1.868	18 / 1.904	12 / 1.294	12 / 1.319	145 / 16.234	205 / 22.619	
1.1.17) MCOI Retrofit - NonOrganic ⁽⁸⁾	- / -	23 / 1.587	29 / 2.039	33 / 2.363	- / -	33 / 2.363	33 / 2.409	33 / 2.455	33 / 2.501	39 / 3.011	- / -	223 / 16.365	
1.1.18) Nacelle Heat Exchanger - Organic	172 / 7.029	40 / 1.462	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	212 / 8.491	
1.1.19) Nose Landing Gear Door Mechanism - NonOrganic	48 / 0.307	48 / 0.313	9 / 0.061	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 0.681	
1.1.20) PRGB Atmospheric Protection and Mast Seal Improvement - Organic	- / -	- / -	24 / 0.548	24 / 0.559	- / -	24 / 0.559	33 / 0.784	36 / 0.873	36 / 0.890	36 / 0.908	19 / 0.489	208 / 5.051	
1.1.21) Rudder Attachment Reliability Improvement - NonOrganic	132 / 1.782	60 / 0.825	60 / 0.841	13 / 0.186	- / -	13 / 0.186	- / -	- / -	- / -	- / -	- / -	265 / 3.634	
1.1.22) Stand by Flight Display - Organic	- / -	- / -	- / -	- / -	- / -	- / -	60 / 1.440	60 / 1.470	60 / 1.494	60 / 1.524	60 / 1.553	300 / 7.481	
1.1.23) Swashplate Actuator - NonOrganic	96 / 0.695	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	96 / 0.695	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
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Models of Systems Affected: V-22 Series				Modification Type: Reliability, Cost-per-flight hour, Reduction in Total Ownership cost				Related RDT&E PEs: 0604262N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
1.1.24) Upper and Lower Rod Ends - Organic	- / -	- / -	48 / 1.445	48 / 1.474	- / -	48 / 1.474	190 / 5.938	- / -	- / -	- / -	- / -	286 / 8.857	
1.1.25) V-22 PRGB Input Quill/Clutch Redesign - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 3.000	60 / 3.057	60 / 3.115	60 / 3.174	240 / 12.346	
1.1.26) Aft Sponson Fuel Tank (OCO) - NonOrganic	- / -	- / -	24 / 3.792	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 3.792	
1.1.27) Archived ECPs - Organic	2,068 / 20.459	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,068 / 20.459	
Subtotal: Recurring	- / 58.058	- / 6.699	- / 22.215	- / 19.718	- / -	- / 19.718	- / 47.892	- / 55.895	- / 33.119	- / 39.979	- / 189.882	- / 473.457	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 4.257	- / 2.204	- / 6.612	- / 3.987	- / -	- / 3.987	- / 3.500	- / -	- / -	- / -	- / -	- / 20.560	
Subtotal: Non-Recurring	- / 4.257	- / 2.204	- / 6.612	- / 3.987	- / -	- / 3.987	- / 3.500	- / -	- / -	- / -	- / -	- / 20.560	
B Kits													
Recurring													
2.1.1) MCOI Retrofit B Kits - Organic	- / -	23 / 6.440	29 / 8.274	33 / 9.594	- / -	33 / 9.594	33 / 9.777	33 / 9.963	33 / 10.152	39 / 12.226	- / -	223 / 66.426	
2.1.2) Electrical System Re-Design - GCU Relocation - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 4.176	48 / 4.255	48 / 4.336	201 / 18.503	345 / 31.270	
2.1.3) Electrical System Re-Design - Generator - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.700	336 / 102.715	345 / 105.415	
Subtotal: Recurring	- / 0.000	- / 6.440	- / 8.274	- / 9.594	- / -	- / 9.594	- / 9.777	- / 14.139	- / 14.407	- / 19.262	- / 121.218	- / 203.111	
Subtotal: MV-22 Readiness (OSIP 028-12)	2,800 / 62.315	367 / 15.343	564 / 37.101	493 / 33.299	- / -	493 / 33.299	722 / 61.169	720 / 70.034	570 / 47.526	611 / 59.241	1,613 / 311.100	8,460 / 697.128	
Subtotal: Procurement, All Modification Items	- / 62.315	- / 15.343	- / 37.101	- / 33.299	- / -	- / 33.299	- / 61.169	- / 70.034	- / 47.526	- / 59.241	- / 311.100	- / 697.128	
Support (All Modification Items)													
3.3) Data	- / 0.910	- / 0.202	- / 0.255	- / 0.262	- / -	- / 0.262	- / 0.242	- / 0.272	- / 0.200	- / 0.200	- / 0.580	- / 3.123	
3.4) Training Equipment ⁽⁹⁾	- / 0.053	- / -	- / 0.062	- / 0.123	- / -	- / 0.123	- / 0.267	- / 0.223	- / 0.141	- / 0.141	- / 0.620	- / 1.630	
3.5) Support Equipment ⁽¹⁰⁾	- / -	- / 0.617	- / 0.148	- / 0.759	- / -	- / 0.759	- / 0.800	- / 0.806	- / 0.812	- / 0.817	- / 0.620	- / 5.379	
3.6) ILS	- / -	- / 0.399	- / 0.407	- / 0.505	- / -	- / 0.505	- / 0.515	- / 0.523	- / 0.533	- / 0.533	- / 2.750	- / 6.165	
3.7) Other Support	- / 9.309	- / 15.972	- / 3.653	- / 3.722	- / -	- / 3.722	- / 3.750	- / 3.813	- / 3.889	- / 3.968	- / 23.500	- / 61.576	
Subtotal: Support	- / 10.272	- / 7.190	- / 4.525	- / 5.371	- / -	- / 5.371	- / 5.574	- / 5.637	- / 5.575	- / 5.659	- / 28.070	- / 77.873	
Installation													
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)	- / 3.348	- / 3.950	- / 4.200	- / 10.261	- / -	- / 10.261	- / 10.401	- / 13.160	- / 13.812	- / 11.234	- / 56.914	- / 127.280	
Subtotal: Installation	- / 3.348	- / 3.950	- / 4.200	- / 10.261	- / -	- / 10.261	- / 10.401	- / 13.160	- / 13.812	- / 11.234	- / 56.914	- / 127.280	
Total													
Total Cost (Procurement + Support + Installation)	75.935	26.483	45.826	48.931	-	48.931	77.144	88.831	66.913	76.134	396.084	902.281	

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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey			Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)	
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)							
Manufacturer Information							
Manufacturer Name: Drive Tube / Drive Link / Gimble				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 12			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020
Delivery Dates		Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021
Manufacturer Name: IPS (CDD/NIPCU)				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 7			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Nov 2014	Nov 2015					
Delivery Dates	Nov 2015	Jun 2016					
Manufacturer Name: Rudder Attachment Reliability Improvement				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 11			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2015	Oct 2016				
Delivery Dates	Nov 2015	Nov 2016	Nov 2017				
Manufacturer Name: Nose Landing Gear Door Mechanism				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 1			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014	Oct 2015					
Delivery Dates	Nov 2014	Nov 2015					
Manufacturer Name: Life Limited Airframe Corrections				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 13			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Jun 2018	Jun 2019	Jun 2020	Jun 2021
Delivery Dates				Apr 2019	Apr 2020	Apr 2021	Apr 2022
Manufacturer Name: AC Bus Tie Circuit Reliability Improvement				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jul 2015	Jul 2016	Jul 2017				
Delivery Dates	Oct 2015	Oct 2016	Oct 2017				
Manufacturer Name: V-22 PRGB Imp Input Quill Wavespring				Manufacturer Location: N/A			

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Exhibit P-3a, Individual Modification: PB 2017 Navy						Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1			P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey			Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)	
Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)							
Manufacturer Information							
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Jul 2019	Jul 2020	Jul 2021
Delivery Dates					Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: MCOI Retrofit				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 10			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Aft Sponson Fuel Tank (OCO)				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016					
Delivery Dates		Jun 2016					
Manufacturer Name: EAPS Start Valve Block				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015						
Delivery Dates	Apr 2015						
Manufacturer Name: Electrical System Re-Design GCU Relocation				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 9			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates					Jan 2019	Jan 2020	Jan 2021
Delivery Dates					Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: Engine Thermo Couple Wire Harness				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 9			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates		Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021
Manufacturer Name: 13 Wiring Harness				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 4			

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Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
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Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Manufacturer Information

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Manufacturer Name: Swashplate Actuator				Manufacturer Location: N/A			
Administrative Leadtime (in Months): 10				Production Leadtime (in Months): 3			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Drive-In Modification:: Installation Name: 13 Wiring Harness

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	63 / 0.443	37 / 0.666	6 / 0.108	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	106 / 1.217
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	63 / 0.443	37 / 0.666	6 / 0.108	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 1.217

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	63	10	11	11	5	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106
Out	63	10	11	11	5	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)

Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Field Modification:: Installation Name: AC Bus Tie Circuit Reliability Improvement

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	96 / 0.690	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	96 / 0.690
FY 2016	- / -	- / -	- / -	135 / 1.170	- / -	135 / 1.170	- / -	- / -	- / -	- / -	- / -	135 / 1.170
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	50 / 0.442	- / -	- / -	- / -	- / -	50 / 0.442
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	96 / 0.690	135 / 1.170	- / -	135 / 1.170	50 / 0.442	- / -	- / -	- / -	- / -	281 / 2.302

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	24	24	24	24	33	34	34	34	12	13	12	13	-	-	-	-	-	-	-	-	-	-	-	-	-	281
Out	-	-	-	-	24	24	24	24	33	34	34	34	12	13	12	13	-	-	-	-	-	-	-	-	-	-	-	-	-	281

Method of Implementation: Contractor Drive In Mod:: Installation Name: Drive Link / Drive Tube

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	123 / 4.797	- / -	123 / 4.797	- / -	- / -	- / -	- / -	- / -	123 / 4.797
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	144 / 5.785	- / -	- / -	- / -	- / -	144 / 5.785
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	139 / 5.614	- / -	- / -	- / -	139 / 5.614
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	116 / 4.406	- / -	- / -	116 / 4.406
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	84 / 2.859	- / -	84 / 2.859
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	92 / 3.334	92 / 3.334
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	145 / 8.075	145 / 8.075
Total	- / -	- / -	- / -	123 / 4.797	- / -	123 / 4.797	144 / 5.785	139 / 5.614	116 / 4.406	84 / 2.859	237 / 11.409	843 / 34.870

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)

Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Drive In Mod:: Installation Name: Drive Link / Drive Tube

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	30	30	30	33	36	36	36	36	35	35	35	34	29	29	29	29	21	21	21	21	237	843
Out	-	-	-	-	-	-	-	-	-	30	30	30	33	36	36	36	36	35	35	35	34	29	29	29	29	21	21	21	21	237	843

Method of Implementation: [none specified]:: Installation Name: EAPS Start Valve Block

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	41 / 1.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	41 / 1.075
FY 2015	- / -	36 / 0.822	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.822
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	41 / 1.075	36 / 0.822	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	77 / 1.897

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	41	-	-	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77
Out	41	-	-	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77

Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: Electrical System Re-Design - GCU Relo

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)

Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: Electrical System Re-Design - GCU Relo

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.536	- / -	- / -	48 / 1.536
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.565	- / -	48 / 1.565
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.584	48 / 1.584
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	201 / 6.633	201 / 6.633
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.536	48 / 1.565	249 / 8.217	345 / 11.318

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	12	12	12	12	12	249	345
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	12	12	12	12	12	249	345

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Engine Thermo Couple Wire Harness

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	41 / 0.864	- / -	41 / 0.864	- / -	- / -	- / -	- / -	- / -	41 / 0.864
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.031	- / -	- / -	- / -	- / -	48 / 1.031
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.050	- / -	- / -	- / -	48 / 1.050
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.070	- / -	- / -	48 / 1.070
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.091	- / -	48 / 1.091
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.111	48 / 1.111
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	41 / 0.864	- / -	41 / 0.864	48 / 1.031	48 / 1.050	48 / 1.070	48 / 1.091	48 / 1.111	281 / 6.217

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)

Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Engine Thermo Couple Wire Harness

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	10	10	10	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	48	281
Out	-	-	-	-	-	-	-	-	-	10	10	10	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	48	281

Method of Implementation: Contractor Field Mod Team:: Installation Name: IPS CDD/NIPCU

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	91 / 0.441	46 / 1.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	137 / 1.487
FY 2015	- / -	- / -	5 / 0.191	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.191
FY 2016	- / -	- / -	4 / 0.156	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.156
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	91 / 0.441	46 / 1.046	9 / 0.347	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	146 / 1.834

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	91	11	11	12	12	2	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146
Out	91	11	11	12	12	2	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Life Limited Airframe Corrections

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
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Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Life Limited Airframe Corrections

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 3.493	- / -	- / -	- / -	18 / 3.493
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 3.560	- / -	- / -	18 / 3.560
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.418	- / -	12 / 2.418
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.460	12 / 2.460
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	145 / 29.725	145 / 29.725
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 3.493	18 / 3.560	12 / 2.418	157 / 32.185	205 / 41.656

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	-	-	9	9	-	-	6	6	157	205	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	-	-	9	9	-	-	6	6	157	205	

Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: MCOI Retrofit

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	23 / 1.978	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 1.978
FY 2016	- / -	- / -	- / -	29 / 2.541	- / -	29 / 2.541	- / -	- / -	- / -	- / -	- / -	29 / 2.541
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	33 / 2.947	- / -	- / -	- / -	- / -	33 / 2.947
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 3.003	- / -	- / -	- / -	33 / 3.003
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 3.060	- / -	- / -	33 / 3.060
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 3.118	- / -	33 / 3.118
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 3.616	39 / 3.616
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	23 / 1.978	29 / 2.541	- / -	29 / 2.541	33 / 2.947	33 / 3.003	33 / 3.060	33 / 3.118	39 / 3.616	223 / 20.263

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)

Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Forced Retrofit of Components:: Installation Name: MCOI Retrofit

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	5	6	6	6	7	7	7	8	8	9	8	8	8	9	8	8	8	9	8	8	8	9	8	8	39	223
Out	-	-	-	-	-	5	6	6	6	7	7	7	8	8	9	8	8	8	9	8	8	8	9	8	8	8	9	8	8	39	223

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Nose Landing Gear Door Mechanism

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	48 / 0.297	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	48 / 0.297
FY 2015	- / -	48 / 0.303	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.303
FY 2016	- / -	- / -	9 / 0.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.109
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	48 / 0.297	48 / 0.303	9 / 0.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 0.709

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	48	12	12	12	12	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105
Out	48	12	12	12	12	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Rudder Attachment Reliability Improvement

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	66 / 0.924	66 / 0.942	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	132 / 1.866
FY 2015	- / -	- / -	60 / 0.872	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.872

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0590 / V-22 (Tilt/Rotor Acft) Osprey **Modification Number / Title:** 2 / MV-22 Readiness (OSIP 028-12)

Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Rudder Attachment Reliability Improvement

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	- / -	60 / 0.889	- / -	60 / 0.889	- / -	- / -	- / -	- / -	- / -	60 / 0.889
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.196	- / -	- / -	- / -	- / -	13 / 0.196
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	66 / 0.924	66 / 0.942	60 / 0.872	60 / 0.889	- / -	60 / 0.889	13 / 0.196	- / -	- / -	- / -	- / -	265 / 3.823

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	66	16	16	17	17	15	15	15	15	15	15	15	15	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265
Out	66	16	16	17	17	15	15	15	15	15	15	15	15	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Swashplate Actuator

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	48 / 0.168	48 / 0.171	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	96 / 0.339
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	48 / 0.168	48 / 0.171	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	96 / 0.339

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
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Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Contractor Drive-In Modification:: Installation Name: Swashplate Actuator

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	48	12	12	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96
Out	48	12	12	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96

Method of Implementation: Contractor Drive-In Modification:: Installation Name: V-22 PRGB Input Quill/Clutch Redesign

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.180	- / -	- / -	60 / 0.180
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.183	- / -	60 / 0.183
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.186	60 / 0.186
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.190	60 / 0.190
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.180	60 / 0.183	120 / 0.376	240 / 0.739

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	15	15	15	15	15	120	240
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	15	15	15	15	15	15	120	240

Method of Implementation: Field Mod Team:: Installation Name: Aft Sponson Fuel Tank (OCO)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)

Modification Item 1 of 1: MV-22 Readiness (OSIP 028-12)

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Aft Sponson Fuel Tank (OCO)

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2016	- / -	- / -	24 / 0.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.096
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	24 / 0.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.096

Installation Schedule

PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
Out	-	-	-	-	-	-	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24

Method of Implementation (Organic): EAPS Start Valve Block A/B/C/10 Organic **Installation Quantity:** 192

Method of Implementation (Organic): IPS (CDD/NIPCU) Organic **Installation Quantity:** 6

Method of Implementation (Organic): IRS Improvements - COANDA Bellows **Installation Quantity:** 346

Method of Implementation (Organic): IRS Improvements - Duct/Centerbody **Installation Quantity:** 346

Method of Implementation (Organic): IRS Improvements - Side Panels **Installation Quantity:** 346

Method of Implementation (Organic): Nacelle Heat Exchanger **Installation Quantity:** 212

Method of Implementation (Organic): PRGB Atmospheric Protection and Mast Seal Improvement **Installation Quantity:** 208

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
<i>Modification Item 1 of 1:</i> MV-22 Readiness (OSIP 028-12)		
Installation Information		
Method of Implementation (Organic): Stand by Flight Display		Installation Quantity: 300
Method of Implementation (Organic): Upper and Lower Rod Ends		Installation Quantity: 286
Method of Implementation (Organic): Archived ECPs - Not Installed		Installation Quantity: 2068
Method of Implementation (Organic): MCOI Retrofit B Kits		Installation Quantity: 223
Method of Implementation (Organic): Electrical System Re-Design - GCU Relocation		Installation Quantity: 345
Method of Implementation (Organic): Electrical System Re-Design - Generator		Installation Quantity: 345

Footnotes:

- ⁽⁶⁾ 13 Wiring Harness: 6 installs delayed to FY16 due to availability.
- ⁽⁷⁾ IPS: Install schedule combines IPS (CDD) and IPS (CDD/NIPCU) showing a total of 146 installs.
- ⁽⁸⁾ MCOI Retrofit Kits: Separated into A kits and B kits.
- ⁽⁹⁾ Training Equipment: The increase between FY16 and FY17 is due to the Block C modification of training simulators and maintenance trainers.
- ⁽¹⁰⁾ Support Equipment: The increase between FY16 and FY17 is due to support equipment modification required to incorporate retrofit engineering change proposals.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey				Modification Number / Title: 3 / Aerial Refueling (008-18)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	17.000	21.700	27.484	33.700	159.929	259.813
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	17.000	21.700	27.484	33.700	159.929	259.813
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	17.000	21.700	27.484	33.700	159.929	259.813

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Operational Safety Improvement Program 008-18 is established for the MV-22 Aerial Refueling System (VARS) Capability. The VARS is an initiative which will deliver the capability to aerial refuel F/A-18, F-35, AV-8B, V-22 and CH-53E aircraft from the V-22. This mission kit will significantly enhance the capabilities of deployed Marine Expeditionary Unit and Special Purpose Marine Air Ground Task Force Assets operating around the world. Additionally, VARS will provide needed relief to KC-130Js tasked with aerial refueling.

Aft Sponson Fuel Tank & Main Landing Gear Bay Fire Suppression System (FSS): This improvement will increase combat range and endurance of the MV-22 and enable accomplishment of the Rapid Ground Refueling (RGR) mission with a single aircraft, greatly enhancing support to the Marine Air Ground Task Force during expeditionary operations. The kit will also increase FSS protection in the Aft Sponson Bay and Main Landing Gear Bays of the standard V-22.

Electric/Hydraulic Kits - Hardware required to connect the VARS to the standard V-22, which includes both hydraulic and electrical components, wires and tubing.

Reel Mission Kit - Equipment that will include a rotating drum around which a fuel hose can be wrapped for storage. The fuel hose will extend out of the V-22 and will supply fuel to the receiving aircraft.

MATS Mod - Mission Auxiliary Tank System are removable, commercial-off-the-shelf and Government Furnished Equipment tanks currently used to contain additional fuel within the cabin of the V-22. This GFE requires modifications to work with the proposed VARS.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					Modification Number / Title: 3 / Aerial Refueling (008-18)			
Models of Systems Affected: V-22 Series				Modification Type: Performance, Capability				Related RDT&E PEs: 0604262N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Aerial Refueling (008-18)</i>													
A Kits													
Recurring													
1.1.1) Aft Sponson/MLGB FSS - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.632	24 / 3.995	24 / 4.075	24 / 4.157	239 / 42.220	321 / 56.079	
1.1.2) Electric/Hydraulic A Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.550	24 / 6.242	24 / 6.367	24 / 6.495	263 / 72.593	345 / 94.247	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 4.182	- / 10.237	- / 10.442	- / 10.652	- / 114.813	- / 150.326	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.130	- / -	- / -	- / -	- / -	- / 0.130	
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.130	- / -	- / -	- / -	- / -	- / 0.130	
B Kits													
Recurring													
2.1.1) Reel Mission Kits - Organic	- / -	- / -	- / -	- / -	- / -	- / -	5 / 4.590	6 / 5.618	12 / 11.462	18 / 17.535	4 / 3.975	45 / 43.180	
2.1.2) Mat Mod - Organic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.020	24 / 2.497	24 / 2.547	24 / 2.598	146 / 16.120	228 / 24.782	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 5.610	- / 8.115	- / 14.009	- / 20.133	- / 20.095	- / 67.962	
Subtotal: Aerial Refueling (008-18)	- / -	- / -	- / -	- / -	- / -	- / -	35 / 9.922	78 / 18.352	84 / 24.451	90 / 30.785	652 / 134.908	939 / 218.418	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 9.922	- / 18.352	- / 24.451	- / 30.785	- / 134.908	- / 218.418	
Support (All Modification Items)													
3.2) Software Modifications	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.560	- / 1.963	- / 1.557	- / 1.410	- / 8.062	- / 13.552	
3.3) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.410	- / -	- / -	- / -	- / -	- / 1.410	
3.4) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.508	- / -	- / -	- / -	- / -	- / 0.508	
3.5) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.150	- / -	- / -	- / -	- / -	- / 3.150	
3.6) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.135	- / -	- / -	- / -	- / -	- / 0.135	
3.7) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.315	- / 1.341	- / 1.368	- / 1.395	- / 15.652	- / 21.071	
Subtotal: Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 7.078	- / 3.304	- / 2.925	- / 2.805	- / 23.714	- / 39.826	
Installation													
<i>Modification Item 1 of 1: Aerial Refueling (008-18)</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.044	- / 0.108	- / 0.110	- / 1.307	- / 1.569	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.044	- / 0.108	- / 0.110	- / 1.307	- / 1.569	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	17.000	21.700	27.484	33.700	159.929	259.813	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 3 / Aerial Refueling (008-18)

Modification Item 1 of 1: Aerial Refueling (008-18)

Manufacturer Information

Manufacturer Name: Aft Sponson/MLGB FSS	Manufacturer Location: NA
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 12

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates				Jan 2019	Jan 2020	Jan 2021	Jan 2022

Installation Information

Method of Implementation: Contractor Drive-In Mod:: Installation Name: Aft Sponson/MLGB FSS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.044	- / -	- / -	- / -	10 / 0.044
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.108	- / -	- / -	24 / 0.108
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.110	- / -	24 / 0.110
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.112	24 / 0.112
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	239 / 1.195	239 / 1.195
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.044	24 / 0.108	24 / 0.110	263 / 1.307	321 / 1.569

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	4	-	8	8	8	-	8	8	8	263	321
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	4	-	8	8	8	-	8	8	8	263	321

Method of Implementation (Organic): Electric/Hydraulic A Kits **Installation Quantity:** 345

Method of Implementation (Organic): Reel Mission Kits **Installation Quantity:** 45

Method of Implementation (Organic): Mat Mod **Installation Quantity:** 228

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0604800M, 0604810M	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 198	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	111.158	215.819	204.464	34.928	-	34.928	158.277	89.352	64.963	79.077	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	111.158	215.819	204.464	34.928	-	34.928	158.277	89.352	64.963	79.077	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	111.158	215.819	204.464	34.928	-	34.928	158.277	89.352	64.963	79.077	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2017 funding request was reduced by \$131.261M to account for the availability of prior year execution balances.

The F-35B Program will develop and deploy a family of highly common, affordable, next generation, stealthy, multi-role strike fighters that meet the needs of multiple services and countries. The United States Marine Corps Short Take Off and Vertical Landing (STOVL) correction of deficiencies effort provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field and depot retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate concurrency changes to sustain and improve F-35B system operations. Concurrency changes are implemented to coincide with resources and aircraft availability. Block upgrades provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the F-35B platform. This modification program will bring early production aircraft and integrated systems to a common fleet configuration as fielded capabilities evolve over the course of the F-35 program.

The modification funding requested in the 2017 President's Budget enables several distinct efforts pertaining to the Marine F-35B aircraft to include post aircraft delivery concurrency retrofits, to correct deficiencies, the block upgrade of hardware and software to a Block 3i configuration, and the block upgrade of software components to a full Block 3F configuration.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

The overlap of development with production and operations results in the need to manage a concurrency program and conduct retrofits on jets with life-limited parts or impacts to capabilities. For the F-35 program, the emergence of new concurrency issues is expected to phase out with the completion of System Development & Demonstration (SDD) in the FY18 timeframe. Block 3i Fleet Release occurred 4th Qtr FY15. Block 3F Fleet Release is planned by 3rd Qtr FY17 and Block 4 Developmental Test & Evaluation (DT&E), (funded through the Follow On Development Project Unit). Fleet Release is planned by 2nd Qtr 2022.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0592 / F-35 STOVL Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0604800M, 0604810M **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 198 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14) (Capability Improvement)			- / 38.123	- / 72.187	- / 56.102	- / -	- / -	- / -
P-3a	2 / F-35 STOVL CONCURRENCY (OSIP 023-14) (Capability Improvement)			- / 73.035	- / 143.632	- / 143.332	- / 34.922	- / -	- / 34.922
P-3a	3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16) (Capability Improvement)			- / 0.000	- / -	- / 5.030	- / 0.006	- / -	- / 0.006
P-40	Total Gross/Weapon System Cost			- / 111.158	- / 215.819	- / 204.464	- / 34.928	- / -	- / 34.928

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14) (Capability Improvement)			- / 1.176	- / 3.197	- / 2.588	- / -	- / -	- / 173.373
P-3a	2 / F-35 STOVL CONCURRENCY (OSIP 023-14) (Capability Improvement)			- / 156.637	- / 40.473	- / 10.449	- / 11.107	Continuing	Continuing
P-3a	3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16) (Capability Improvement)			- / 0.464	- / 5.396	- / 0.660	- / -	- / -	- / 11.556
P-40	Total Gross/Weapon System Cost			- / 158.277	- / 89.352	- / 64.963	- / 79.077	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
Basis for FY 2017 budget request: FY17 F-35B Total Active Inventory is 54 aircraft. FY 2017 funding is requested for kits to retrofit LRIP 2-5 JSF F-35B to the Block 3i configuration, kits to retrofit 6 LRIP 2-5 JSF F-35B to Block 3F configuration and for the highest priority concurrency modifications to support the USMC Iwakuni deployment.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0592 / F-35 STOVL Series				Modification Number / Title: 1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	38.123	72.187	56.102	-	-	-	1.176	3.197	2.588	-	-	173.373
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	38.123	72.187	56.102	-	-	-	1.176	3.197	2.588	-	-	173.373
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	38.123	72.187	56.102	-	-	-	1.176	3.197	2.588	-	-	173.373
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The block upgrade program retrofits United States Marine Corps F-35B aircraft and integrated systems procured under the Low Rate Initial Production (LRIP) contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

This effort (OSIP 015-14) focuses on upgrading Blocks 1B, 2A, and 2B aircraft from LRIPs 2-5 to a Block 3i configuration. Block 3i is a stepping stone to the Block 3F configuration. It includes the procurement of Tech Refresh 2 (TR2) hardware for the Block 3i configuration. The parts include new radar modules, new Integrated Core Processor (ICP) modules and rack, and new Electronic Warfare (EW) modules. The Gen III Helmet will also be introduced as part of the Block 3i upgrade. This effort includes tooling and test equipment for Military Service Depots to support the execution of the Block Upgrade program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

Block 3i Software Fleet Release occurred 4th Qtr FY15.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0592 / F-35 STOVL Series						Modification Number / Title: 1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)			
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)</i>													
B Kits													
Recurring													
1.1.1) EQUIPMENT Block 3i - NonOrganic ⁽¹⁾	6 / 24.214	14 / 57.572	11 / 45.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 127.660	
<i>Subtotal: Recurring</i>	- / 24.214	- / 57.572	- / 45.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 127.660	
<i>Subtotal: F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)</i>	6 / 24.214	14 / 57.572	11 / 45.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 127.660	
<i>Subtotal: Procurement, All Modification Items</i>	- / 24.214	- / 57.572	- / 45.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 127.660	
Support (All Modification Items)													
2.1) ILS	- / 9.360	- / 1.986	- / 2.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.392	
2.2) Other Support	- / -	- / 7.944	- / 8.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.126	
2.3) Training Equipment	- / 4.549	- / 4.685	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.234	
<i>Subtotal: Support</i>	- / 13.909	- / 14.615	- / 10.228	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 38.752	
Installation													
<i>Modification Item 1 of 1: F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.176	- / 3.197	- / 2.588	- / -	- / -	- / 6.961	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.176	- / 3.197	- / 2.588	- / -	- / -	- / 6.961	
Total													
Total Cost (Procurement + Support + Installation)	38.123	72.187	56.102	-	-	-	1.176	3.197	2.588	-	-	173.373	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)

Modification Item 1 of 1: F-35 STOVL BLOCK 3i LRIP 2-5 UPGRADE (OSIP 015-14)

Manufacturer Information

Manufacturer Name: Lockheed Martin ⁽²⁾				Manufacturer Location: Fort Worth, TX			
Administrative Leadtime (in Months): 11				Production Leadtime (in Months): 39			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Aug 2015	Aug 2016	Aug 2017				
Delivery Dates	Nov 2018	Nov 2019	Nov 2020				

Installation Information

Method of Implementation: Depot Field Team:: Installation Name: Block 3i

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.176	- / -	- / -	- / -	- / 0.000	6 / 1.176
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 3.197	- / -	- / -	- / -	14 / 3.197
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 2.588	- / -	- / -	11 / 2.588
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.176	14 / 3.197	11 / 2.588	- / -	- / -	31 / 6.961

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	2	3	4	3	4	3	3	3	2	-	-	-	-	-	31
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	2	3	4	3	4	3	3	3	2	-	-	-	-	-	31

Footnotes:
⁽¹⁾ Prior Years (FY14) contract award date is Aug 2015, with deliveries beginning in Nov 2017. Programmatic slips in the contract award of Block 2B of eighteen (18) months, along with a slip in the development of Block 3i Hardware led to a delay in execution of FY14 funding. Block 3i Hardware kits were developed utilizing SDD funds and were broken into the production line beginning with the production of LRIP 6, FY12 funded, jets. The funding associated with these Block 3i kits is inclusive of Block 3i hardware and software.
⁽²⁾ Depot Field Team Install.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0592 / F-35 STOVL Series			Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	73.035	143.632	143.332	34.922	-	34.922	156.637	40.473	10.449	11.107	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	73.035	143.632	143.332	34.922	-	34.922	156.637	40.473	10.449	11.107	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	73.035	143.632	143.332	34.922	-	34.922	156.637	40.473	10.449	11.107	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This effort (OSIP 023-14) funds retrofits due to concurrency changes to correct deficiencies discovered after DD-250 of the last aircraft in a given Low Rate Initial Production (LRIP) lot. This includes modifications required to extend aircraft service life currently limited by low-life parts, and relieve capability limitations driven by concurrency of production with development.

The concurrency funding line will procure the highest priority modifications from the Tri-Service Modification Prioritization List, as they become supportable from an engineering, production, and installation standpoint. The list is vetted by the Services and Partners every 6 months to ensure the list accurately reflects existing requirements as well as emerging issues. Per-kit costs will vary for each modification being implemented, and in some cases will also vary for aircraft from different LRIP lots to implement an individual modification. For FY17, the highest priority modifications will directly support the USMC Iwakuni deployment.

Total cost reflects procurement and installation costs in each fiscal year. Support costs include overall modification program planning, scheduling, and management; and support of Military and Service Depots and Depot Field Teams for incorporation of modifications.

The following modifications will be the highest priorities for accomplishment throughout the STOVL fleet using funds from this OSIP. Listed modifications are requirements for Initial Operational Capability (IOC) and priority modifications for long-term retrofit needs following IOC. FY17 concurrency funds will also be used to implement IOC modifications across the rest of the USMC F-35B fleet.

TI Number	CR Title
TI-0000-0027	IPP Exhaust (STOVL)
TI-0000-0031	Nose Wheel Steering (NWS) Motor Qualification Failure
TI-0000-0045	CTOL/STOVL MLG SDD & LRIP Part Number Rolls
TI-0000-0055	IPP Bay Vent Fan Electrical Bond
TI-0000-0056	IPP Controller Part Number Roll
TI-0000-0057	STOVL GO3 Control Valve Part Number Roll
TI-0000-0058	Back-Up Radio Tray Clearance
TI-0000-0064	Counter Measures Door Control Valve Life Limitation on AF:6
TI-0000-0101	Lift Fan Inlet Door Full Qualification Part Number Roll
TI-0000-0121	Lift Fan Exhaust / Inboard Weapon Bay Door Interference
TI-0000-0124	Controller, Motor Pump Qual Failure
TI-0000-0133	Filter Module, Pressure Qual Failure

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-0135 Engine Driven Pump Life Limit TI-0000-0137 Pump, Motor GND Maint Qual Failure TI-0000-0138 Wingtip Light Improvement For FAA Compliance TI-0000-0147 PTMS PAO Three-Port Valve Part Number Roll TI-0000-0158 WBDD Flexible Cable Re-design TI-0000-0161 EDU #1 & #2 Signal Deletion TI-0000-0165 R3 Float Valve with Mechanical Thread Locking TI-0000-0191 270V BCCU TI-0000-0192 Gen II -10 Helmet Mounted Display Variance TI-0000-0193 EW Gain State Control Logic Error TI-0000-0231 PTMS EHA Cooling Orifices - CTOL & STOVL TI-0000-0236 FPS Fire and Bleed Leak Controller (FBLC) Redesign TI-0000-0245 Update to Antenna Switch Unit for Cosite Function and Qualification Test Failures TI-0000-0260 Canopy Actuation System TI-0000-0263 Power Panel 1, 2, 3 TI-0000-0264 PTMS Controller Humidity, Temp, and Durability Qualification Test Failures TI-0000-0282 Update to Audio Control Electronics (ACE) Unit for Qualification Test Failures TI-0000-0286 Backup Radio (BuR) Indirect Lightning Qualification Test Failure TI-0000-0321 Lift Fan Exhaust Door Aft Uplock Hook Failure TI-0000-0327 STOVL High Sea State Fuel Stowage TI-0000-0329 Refueling Bay and Nozzle Clash LRIP 1-3 Modification TI-0000-0331 WBDDS RGAs Limited Life - Change Request Approval TI-0000-0336 Panoramic Cockpit Display (PCD) - DU TI-0000-0339 HMDS LRIP Subsystem Variance - UUT Outages TI-0000-0343 Panoramic Cockpit Display (PCD) Major Variances - EU TI-0000-0344 HMDS LRIP Subsystem Variance - Fixed Camera TI-0000-0361 Vertical Tail 575 Fitting TI-0000-0363 TRS Component Changes from Qual Test Failures TI-0000-0367 Engine Trailer Adapter Kit - FS556 Interface, J27006/J27007 TI-0000-0373 Aux Air Inlet Lock Actuation Mechanism "Mixer Box" Qual Test Failure TI-0000-0375 STOVL IRCM Doors Bushing to Lug Interference TI-0000-0377 Aux Air Inlet Door Redesign TI-0000-0387 Fuel System - Dive Rate Performance TI-0000-0395 LEF Inbd Blade Seal Mousehole and CTOL LEF Lwr Inbd Blade Seal Failures TI-0000-0396 WBDD Limit Life, ECU TI-0000-0405 "EDU Random Vibration Failures Electrical Distribution Unit Full Qualification" TI-0000-0412 Wing Lighting Controller - Salt Fog Failure TI-0000-0423 Engine Interchangeability Bleed Air System Ducting Design TI-0000-0424 Firewall Shutoff Valve Part Number Roll TI-0000-0448 Add -0007 ASSCA/-0006 ATQA To Aircraft TVE TI-0000-0469 Life Support System (OBOGS, Steel BOS, SIC, SPA, PIC and Composite BOS) TI-0000-0477 CTOL EHAS Panels - Incorrect Fastener Grips and De-torque Issu TI-0000-0480 ICC Qual Issues TI-0000-0486 Short Life - STOVL Inner Wing FS518 Lower Bulkhead		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-0495 OBIGGS & Pressure/Vent Changes for Lightning Protection TI-0000-0516 AAR Probe Weak Link Adaptor Re-design TI-0000-0538 EHA Flaperon Support Equipment Locations TI-0000-0543 STOVL Limited Life Outboard Rib at Station 2 and 10 TI-0000-0544 Limited Life STOVL Mid Fairing Longeron TI-0000-0545 Limited Life STOVL Nacelle Vent Inlet TI-0000-0556 STOVL Short Life Parts: Aft Mid Keel TI-0000-0558 STOVL Short Life Parts: Keel Beam RH TI-0000-0559 STOVL Short Life Parts: NLG Drag Brace Ftg TI-0000-0561 STOVL FS 496 Bulkhead Trunnion TI-0000-0564 STOVL Forward Root Rib (L6/U6) TI-0000-0566 STOVL Short Life Parts: Support, Otbd, FS 502.65 LH/RH TI-0000-0574 Electronics Units Modifications for EMI, Lightning and Qualification Compliance TI-0000-0575 ULF & 3BSD Emergency Control Valve TI-0000-0576 Refuel Probe/Tailhook Emergency Control Valve TI-0000-0578 Aux Inlet Door Emergency Control Valve TI-0000-0583 CTOL STOVL Rudder EHA Design Change TI-0000-0602 Brake Control Unit (BCU) Wet Runway Update & Operation of a Wet Runway TI-0000-0617 Limited Life STOVL STA 3/9 Aft Rib TI-0000-0626 SMSFRIU SDD/LRIP Arm Disable Input TI-0000-0631 Countermeasures Doors & NNMSB/WSESRB Concerns TI-0000-0638 Short Life - STOVL BL 0.0 Web Fwd Upper Engine Mount Support TI-0000-0654 IDMS Connector Ref Des Swap TI-0000-0655 EO DAS Center Fuselage Vibration Testing TI-0000-0673 Ordnance Quick Latch System (OQLS) - Clip Lock TI-0000-0703 Roll Post Door Actuator Life Limitation TI-0000-0707 Air Data System Design Changes For -0004 Configuration TI-0000-0709 HT EHA Block Change TI-0000-0723 EOTS PBS Startup Timeline TI-0000-0738 Modified Fuel Dump Valve (T28a) TI-0000-0771 Install Battery into CNI Rack 3A and 3B TI-0000-0772 PTMS Turbomachine/ACCM Cable Interface Changes TI-0000-0781 3BSM NBD - Assembly Changes TI-0000-0808 Weapons Bay Door Uplock Sealing TI-0000-0854 DMCH MPEG VHDL Firmware Version TI-0000-0866 Production Ejection Seat (-0023) TI-0000-0884 AESG - Material & Workmanship TI-0000-0895 Arm Disable Current Leakage Path Correction TI-0000-0897 Roll Control Nozzle Door Redesign TI-0000-0898 Electronic Warfare Band 3/4 Antenna and Edge Performance Issues TI-0000-0904 Backup Radio Guide Pin Misalignment TI-0000-0906 NLG Lug Inspection and Support Stiffener TI-0000-0908 STOVL Fuel Dump (CCDD LRIP2-051) TI-0000-0910 PCD EU Cooling Rework		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-0913	LEFAS PDU Resolver and Rotor Shaft Seal Life	
TI-0000-0945	CTOL Audio Control Electronics (ACE) In-Flight Refueling	
TI-0000-0976	RCS ATP	
TI-0000-0992	Outboard Vertical Tail Seal Redesign	
TI-0000-1000	Inboard Weapon Bay Door Flipper Door Design Change	
TI-0000-1011	L-Band Pre-Selector (LBPS) Propagation Delay Calibration for Mode 5	
TI-0000-1023	Roll Nozzle and Duct Bay - BALD Sensors redesign	
TI-0000-1048	Panoramic Cockpit Display-Electronic Unit (PCD-EU)	
TI-0000-1053	Fire Suppression Bottle Low Clearance	
TI-0000-1056	RADAR 1A & 1B Racks -0002 Cut-in	
TI-0000-1060	Final Finishes	
TI-0000-1078	Nacelle Insulation	
TI-0000-1082	Power Panel 1 & 2 Random Vibration Failures - Second Failure	
TI-0000-1089	LRIP 3 Aux Air Inlet (AAI) Door Install	
TI-0000-1092	Landing Taxi Light Redesign	
TI-0000-1097	Ball Joint Salt Fog Failure	
TI-0000-1099	ATQA Mounting Bolt Interface	
TI-0000-1101	GMMP Controller EEE outage	
TI-0000-1102	BH-1 Weapons Bay Doors - AMRAAM Cradle Found Fatigue Cracks in Cradle Lugs @ 11,353 Hours	
TI-0000-1113	AESG Power Connector Rating (Generator)	
TI-0000-1161	STOVL Aft MLG Door Cracking	
TI-0000-1198	HT Heating	
TI-0000-1203	Life Limited 402 Frame, RHS Fuel Floor and fasteners at the wing-to-body glove fairing	
TI-0000-1255	Fibre Channel Switch Design Issues-0004	
TI-0000-1324	Structural Cracking of Aft MLG Door Drive Link U-Joint	
TI-0000-1372	EW Block-2 DRFM Module Firmware Issue	
TI-0000-1408	CCDD LRIP4/LRIP 5-016 EW: AEL, Aft Sector	
TI-0000-1421	STOVL MLG	
TI-0000-1422	STOVL Nose Landing Gear	
TI-0000-1440	STOVL Thrust Mount Shear Webs Do Not Meet Service Life Requirement	
TI-0000-1455	Roll Control Nozzle Panel Install, RH	
TI-0000-1480	Lift System FADEC Redesign PN Change	
TI-0000-1483	Power Panel 3 Random Vibration Failures - Second Failure	
TI-0000-1486	STOVL FS 503 Frame / IPP Shear Web Durability Test Failure	
TI-0000-1494	PTMS Turbomachine Configuration to Correct Qualification Failures	
TI-0000-1499	FS 472 Bulkhead Crack BH-1	
TI-0000-1515	ESG Service Life (Generator) -0003	
TI-0000-1518	Incorrect PAO Orifice In P5 Gp A Dummy LRU; Incorrect PAO Cooling Orifices In Center Fuselage Cold Liquid Loop	
TI-0000-1549	Firmware Update for AMS Cartridge Reset SPAR	
TI-0000-1551	28V Battery Full Qualification	
TI-0000-1552	28V BCCU Lightning Compliance - 28V Battery Charger	
TI-0000-1589	Hydraulic System Single Point Failure	
TI-0000-1650	MWARS for Production Seat (LRIP 1-6)	
TI-0000-1652	Rudder Slider Hinge Wear	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
1506N / 05 / 1	0592 / F-35 STOVL Series	2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-0000-1653	Ground Maintenance Valve Deletion to Prevent PAO in Cockpit (DR 1-4815699)	
TI-0000-1655	STOVL Right Hand (RH) and Left Hand (LH) Rear Spar Lower Flange Fatigue Cracks	
TI-0000-1706	Insertion of updated DMCH into LRIP 6 with Night Vision Camera Image Quality Improvements	
TI-0000-1761	HT EHA Solenoid Valve (SOV) Qual Test Failure	
TI-0000-1783	Canopy Boot Cracking	
TI-0000-2450	Bleed Air Sensor Fitting Galling	
TI-0000-2528	270V Battery Gunfire Vibration Failure	
TI-0000-2546	Weapon bay light departing aircraft during flight	
TI-0000-2551	L-Band Power Amplifier (LBPA) Update for LINK-16	
TI-0000-2580	AESG -0004 Qual Failure	
TI-0000-2624	Lower Horizontal Tail Bullnose Panels Experiencing Coating Damage (panels 4134/4133)	
TI-0000-2633	Flaperon Blade Seal Buckling	
TI-0000-2641	STOVL - Short Shank Condition, Engine Access Panel	
TI-0000-2659	Cockpit Green Indicator Bright/Dim Anomaly	
TI-0000-2670	Durability Findings 2013 - Bulkhead FS 496	
TI-0000-2672	Radome Shroud Gapping / Trimming	
TI-0000-2682	Incongruous illumination characteristics of AR probe light while centerline tanking on KC-10/KC-135	
TI-0000-2690	LAU-147 and BRU Vent Valve Under Full Pressure	
TI-0000-2699	Fibre Channel Switch Design Issues -0005	
TI-0000-2714	0025 Ejection Seat Qual Issues	
TI-0000-2725	Vehicle Management Computer (VMC) Electrical Connection Issue on CTOL and STOVL aircraft	
TI-0000-2784	CNI 3A & 3B Integrated Backplane Assembly (IBA) EMI Upgrades	
TI-0000-2800	CNI TFR Module Humidity Qualification Test Failure	
TI-0000-2813	Durability Findings - FS 450, 472, 556, 518 Lower and IRCM Fitting	
TI-0000-2814	Durability Findings 2013 FS 575 Center Arch Frame	
TI-0000-2818	EOTS LoS Pointing Angle	
TI-0000-2834	Boarding Ladder Cracks	
TI-0000-2891	OBIGGS Wash Pressure Buildup in Refuel Manifold	
TI-0000-2892	BF5 IRCM Hinge to Drive Link Clash	
TI-0000-2909	IPP Bay High Flow Air Duct Separation	
TI-0000-2954	STOVL NLG EEE Failure	
TI-0000-3005	Flaperon Blade Seal Trailing Edge Gapping	
TI-0000-3057	F-35B HT EHA Solenoid Valve (SOV) Qual Test Failure	
TI-0000-3097	PAO filter bracket failure on STOVL	
TI-0000-3109	AAID Qual Test Spring Failure (Center Fuselage)	
TI-0000-3194	Landing Aid Down Converter (LADC) Qualification Test Failure	
TI-0000-3207	F-35B Centre Arch Frame, FS594, Durability Life	
TI-0000-3285	Egress System Safe Escape Intro for -6 Seat	
TI-0000-3286	IPP Fan Controller Failure	
TI-0000-3386	MLG Door Crank Arm Corrosion F35-A/B	
TI-7777-0007	OBOGS Plenum HEPA Filter Provisioning	
TI-7777-0010	Radar Harness Redesign	
TI-7777-0031	Brake Control Electronic Unit Update	
TI-7777-0042	Return Fuel Cooler HX Coating	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)
TI-7777-0057 Nacelle Fan - Full Qualified Configuration TI-7777-0083 CTOL/STOVL EHAS/LEFAS -0011 EU & Rack Config Update TI-7777-0085 Replacement of Door Actuator Lock Assemblies (STOVL/CTOL Door Locks) TI-7777-0093 Flow Sensor EMI/Vibration TI-7777-0097 IEU Lightning Compliance TI-7777-0106 WBD Fwd Uplock Roller Bracket TI-7777-1001 LRIP 1&2 Block 1 Upgrade TI-7777-1003 Block 1.0-v01.702 Formal Systems Build TI-9999-0191 Interim Solution - 270V BCCU TI-9999-1422 Interim Solution - STOVL Nose Landing Gear TI-9999-1650 MWARS for Production Seat - LRIP 5 Only		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES For the F-35 program, the emergence of new concurrency issues is expected to phase out with the completion of SDD in the FY18 timeframe.		

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)			
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: F-35 STOVL CONCURRENCY (OSIP 023-14)</i>													
A Kits													
Recurring													
1.1.1) Structures - Organic	- / -	- / 68.943	- / 72.070	- / 11.175	- / -	- / 11.175	- / 55.707	- / 13.761	- / 4.564	- / 4.401	Continuing	Continuing	
1.1.2) Concurrency - Organic	- / 37.302	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.302	
1.1.3) Mission Systems - Organic	- / -	- / 12.927	- / 16.819	- / 2.794	- / -	- / 2.794	- / 14.097	- / 4.047	- / 1.020	- / 1.371	Continuing	Continuing	
1.1.4) Vehicle Systems - Organic	- / -	- / 10.054	- / 29.519	- / 7.334	- / -	- / 7.334	- / 39.161	- / 8.095	- / 0.765	- / 1.097	Continuing	Continuing	
1.1.5) Propulsion - Organic	- / 35.733	- / 43.090	- / 19.321	- / 10.127	- / -	- / 10.127	- / 39.158	- / 8.904	- / 1.315	- / 1.565	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 73.035	- / 135.014	- / 137.729	- / 31.430	- / -	- / 31.430	- / 148.123	- / 34.807	- / 7.664	- / 8.434	Continuing	Continuing	
<i>Subtotal: F-35 STOVL CONCURRENCY (OSIP 023-14)</i>	- / 73.035	- / 135.014	- / 137.729	- / 31.430	- / -	- / 31.430	- / 148.123	- / 34.807	- / 7.664	- / 8.434	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / 73.035	- / 135.014	- / 137.729	- / 31.430	- / -	- / 31.430	- / 148.123	- / 34.807	- / 7.664	- / 8.434	Continuing	Continuing	
Support (All Modification Items)													
2.1) ILS	- / -	- / 5.386	- / 3.188	- / 2.095	- / -	- / 2.095	- / 4.932	- / 3.238	- / 1.893	- / 1.371	Continuing	Continuing	
2.2) Other Support	- / -	- / 3.232	- / 2.415	- / 1.397	- / -	- / 1.397	- / 3.582	- / 2.428	- / 0.892	- / 1.302	Continuing	Continuing	
<i>Subtotal: Support</i>	- / 0.000	- / 8.618	- / 5.603	- / 3.492	- / -	- / 3.492	- / 8.514	- / 5.666	- / 2.785	- / 2.673	Continuing	Continuing	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	73.035	143.632	143.332	34.922	-	34.922	156.637	40.473	10.449	11.107	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 2 / F-35 STOVL CONCURRENCY (OSIP 023-14)

Modification Item 1 of 1: F-35 STOVL CONCURRENCY (OSIP 023-14)

Manufacturer Information

Manufacturer Name: Various ⁽³⁾	Manufacturer Location: Various
Administrative Leadtime (<i>in Months</i>): 0	Production Leadtime (<i>in Months</i>): 0

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Footnotes:
⁽³⁾ Quantities and installation dates will vary with each concurrency modification.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0592 / F-35 STOVL Series				Modification Number / Title: 3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	5.030	0.006	-	0.006	0.464	5.396	0.660	-	-	11.556
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	5.030	0.006	-	0.006	0.464	5.396	0.660	-	-	11.556
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	5.030	0.006	-	0.006	0.464	5.396	0.660	-	-	11.556
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The block upgrade program retrofits United States Marine Corps F-35B aircraft and integrated systems procured under the Low Rate Initial Production (LRIP) contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

This effort (OSIP 005-16) focuses on the Block 3F configuration upgrade effort for 32 LRIP 2-5 and 18 LRIP 6-8 F-35B aircraft and integrated systems. All of the LRIP 2-5 F-35B aircraft receiving the Block 3F software under this OSIP will have already received the Block 3i hardware under OSIP 015-14. This effort purchases all necessary software and installation labor to ensure LRIP 2-8 F-35B aircraft are upgraded to a Block 3F baseline for full warfighting capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

Block 3F Fleet Release occurred 3rd Qtr FY17.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0592 / F-35 STOVL Series						Modification Number / Title: 3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)			
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)</i>													
B Kits													
Recurring													
1.1.1) Block 3F LRIP 2-5 - NonOrganic	- / -	- / -	4 / 0.004	6 / 0.006	- / -	6 / 0.006	14 / 0.014	11 / 0.011	1 / 0.001	- / -	- / -	36 / 0.036	
1.1.2) Block 3F LRIP 6-8 - Organic ⁽⁴⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.009	9 / 0.009	- / -	- / -	18 / 0.018	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 0.004	- / 0.006	- / -	- / 0.006	- / 0.014	- / 0.020	- / 0.010	- / -	- / -	- / 0.054	
<i>Subtotal: F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)</i>	- / -	- / -	4 / 0.004	6 / 0.006	- / -	6 / 0.006	14 / 0.014	20 / 0.020	10 / 0.010	- / -	- / -	54 / 0.054	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 0.004	- / 0.006	- / -	- / 0.006	- / 0.014	- / 0.020	- / 0.010	- / -	- / -	- / 0.054	
Support (All Modification Items)													
2.1) Training Equipment	- / -	- / -	- / 4.826	- / -	- / -	- / -	- / -	- / 4.826	- / -	- / -	- / -	- / 9.652	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 4.826	- / -	- / -	- / -	- / -	- / 4.826	- / -	- / -	- / -	- / 9.652	
Installation													
<i>Modification Item 1 of 1: F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)</i>	- / 0.000	- / -	- / 0.200	- / -	- / -	- / -	- / 0.450	- / 0.550	- / 0.650	- / -	- / -	- / 1.850	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 0.200	- / -	- / -	- / -	- / 0.450	- / 0.550	- / 0.650	- / -	- / -	- / 1.850	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	5.030	0.006	-	0.006	0.464	5.396	0.660	-	-	11.556	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 3 / F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)

Modification Item 1 of 1: F-35 STOVL BLOCK 3F UPGRADE (OSIP 005-16)

Manufacturer Information

Manufacturer Name: Lockheed Martin - Block 3F LRIP 2-5	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 11	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Jun 2016	Aug 2017	Aug 2018	Aug 2019	Jun 2020	
Delivery Dates		Sep 2016	Nov 2017	Nov 2018	Nov 2019	Sep 2020	

Installation Information

Method of Implementation: [none specified]:: Installation Name: Block 3F LRIP 2-5

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	4 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.200
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.450	- / -	- / -	- / -	- / -	6 / 0.450
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.550	- / -	- / -	- / -	14 / 0.550
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.600	- / -	- / -	11 / 0.600
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.050	- / -	1 / 0.050
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	4 / 0.200	- / -	- / -	- / -	6 / 0.450	14 / 0.550	12 / 0.650	- / -	- / -	36 / 1.850

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	4	-	-	-	-	1	1	2	2	3	4	3	4	3	3	3	3	-	-	-	-	-	36
Out	-	-	-	-	-	-	-	-	4	-	-	-	-	1	1	2	2	3	4	3	4	3	3	3	3	-	-	-	-	-	36

Method of Implementation (Organic): Block 3F LRIP 6-8

Installation Quantity: 18

Footnotes:

⁽⁴⁾ LRIP 6-8 aircraft were delivered in a Block 3i configuration. Block 3F installation will occur at the O-Level.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0593 / F-35 CV Series
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604800N, 0604810N	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 198	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	29.950	20.502	48.527	26.004	-	26.004	49.848	20.721	12.929	13.192	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	29.950	20.502	48.527	26.004	-	26.004	49.848	20.721	12.929	13.192	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	29.950	20.502	48.527	26.004	-	26.004	49.848	20.721	12.929	13.192	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2017 funding request was reduced by \$31.823M to account for the availability of prior year execution balances.

The F-35 Joint Strike Fighter (JSF) Program will develop and deploy a family of highly common, affordable, next generation, stealthy, multi-role strike fighters that meet the needs of multiple services and countries. The United States Navy Carrier Variant (CV) correction of deficiencies effort provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field and depot retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process and incorporate concurrency changes to sustain and improve F-35C system operations. Concurrency changes are implemented to coincide with resources and aircraft availability.

Block upgrades provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the F-35C platform. This modification program will bring early production aircraft and integrated systems to a common fleet configuration as fielded capabilities evolve over the course of the F-35 program.

The modification funding requested in the 2017 President's Budget enables several distinct efforts pertaining to the Navy F-35C aircraft to include post aircraft delivery concurrency retrofits, the block upgrade of hardware and software to a Block 3i configuration, and the block upgrade of software components to a full Block 3F configuration.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

The overlap of development with production and operations results in the need to manage a concurrency program and conduct retrofits on jets with life-limited parts or impacts to capabilities. For the F-35 program, the emergence of new concurrency issues is expected to phase out with the completion of Systems Development and Demonstration (SDD) in the FY18 timeframe. Block 3i Fleet Release occurred 4th Qtr FY15, Block 3F Fleet Release is planned by 3rd Qtr FY17.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0593 / F-35 CV Series

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604800N, 0604810N **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 198 **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-35 CV BLOCK 3i LRIP 4-5 UPGRADE (OSIP 016-14) (Capability Improvement)			- / 27.614	- / 19.135	- / 9.723	- / 1.050	- / -	- / 1.050
P-3a	2 / F-35 CV CONCURRENCY (OSIP 024-14) (Capability Improvement)			- / 2.336	- / 1.367	- / 38.804	- / 24.949	- / -	- / 24.949
P-3a	3 / F-35 CV BLOCK 3F LRIP 4-8 UPGRADE (OSIP 005-17) (Capability Improvement)			- / 0.000	- / -	- / -	- / 0.005	- / -	- / 0.005
P-40	Total Gross/Weapon System Cost			- / 29.950	- / 20.502	- / 48.527	- / 26.004	- / -	- / 26.004

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-35 CV BLOCK 3i LRIP 4-5 UPGRADE (OSIP 016-14) (Capability Improvement)			- / 2.182	- / 1.391	- / -	- / -	- / -	- / 61.095
P-3a	2 / F-35 CV CONCURRENCY (OSIP 024-14) (Capability Improvement)			- / 47.413	- / 17.518	- / 12.764	- / -	Continuing	Continuing
P-3a	3 / F-35 CV BLOCK 3F LRIP 4-8 UPGRADE (OSIP 005-17) (Capability Improvement)			- / 0.253	- / 1.812	- / 0.165	- / -	- / -	- / 2.235
P-40	Total Gross/Weapon System Cost			- / 49.848	- / 20.721	- / 12.929	- / 13.192	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
Basis for FY 2017 budget request: FY17 Total Active Inventory of F-35C aircraft is 29. FY 2017 funding is requested to support the production of 5 Block 3F kits and the highest priority concurrency modifications to support USN IOC, pilot training and tactics development.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0593 / F-35 CV Series				Modification Number / Title: 1 / F-35 CV BLOCK 3i LRIP 4-5 UPGRADE (OSIP 016-14)				

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.614	19.135	9.723	1.050	-	1.050	2.182	1.391	-	-	-	61.095
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.614	19.135	9.723	1.050	-	1.050	2.182	1.391	-	-	-	61.095
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.614	19.135	9.723	1.050	-	1.050	2.182	1.391	-	-	-	61.095
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The block upgrade program retrofits United States Navy F-35C aircraft and integrated systems procured under the Low Rate Initial Production (LRIP) contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

This effort (OSIP 016-14) focuses on upgrading Blocks 2A and 2B aircraft from LRIPs 4-5 to a Block 3i configuration. Block 3i is a stepping stone to the Block 3F configuration. It includes the procurement of Tech Refresh 2 (TR2) hardware for the Block 3i configuration. The parts include new radar modules, new Integrated Core Processor (ICP) modules and rack, and new Electronic Warfare (EW) modules. The Gen III helmet will also be introduced as part of the Block 3i upgrade. This effort includes tooling and test equipment for Military Service Depots to support execution of the Block Upgrade program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

Block 3i Fleet Release occurred 4th Q FY15.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 1 / F-35 CV BLOCK 3i LRIP 4-5 UPGRADE (OSIP 016-14)			
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: F-35 CV BLOCK 3i LRIP 4-5 UPGRADE (OSIP 016-14)</i>													
B Kits													
Recurring													
1.1.1) EQUIPMENT Block 3i - NonOrganic ⁽¹⁾	5 / 22.832	3 / 14.110	3 / 7.778	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 44.720	
<i>Subtotal: Recurring</i>	- / 22.832	- / 14.110	- / 7.778	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.720	
<i>Subtotal: F-35 CV BLOCK 3i LRIP 4-5 UPGRADE (OSIP 016-14)</i>	5 / 22.832	3 / 14.110	3 / 7.778	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 44.720	
<i>Subtotal: Procurement, All Modification Items</i>	- / 22.832	- / 14.110	- / 7.778	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.720	
Support (All Modification Items)													
2.1) ILS	- / 3.218	- / 0.683	- / -	- / 0.210	- / -	- / 0.210	- / 0.215	- / -	- / -	- / -	- / -	- / 4.326	
2.2) Other Support	- / -	- / 2.731	- / 1.945	- / 0.840	- / -	- / 0.840	- / 0.858	- / -	- / -	- / -	- / -	- / 6.374	
2.3) Training Equipment	- / 1.564	- / 1.611	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.175	
<i>Subtotal: Support</i>	- / 4.782	- / 5.025	- / 1.945	- / 1.050	- / -	- / 1.050	- / 1.073	- / -	- / -	- / -	- / -	- / 13.875	
Installation													
<i>Modification Item 1 of 1: F-35 CV BLOCK 3i LRIP 4-5 UPGRADE (OSIP 016-14)</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.109	- / 1.391	- / -	- / -	- / -	- / 2.500	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.109	- / 1.391	- / -	- / -	- / -	- / 2.500	
Total													
Total Cost (Procurement + Support + Installation)	27.614	19.135	9.723	1.050	-	1.050	2.182	1.391	-	-	-	61.095	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 1 / F-35 CV BLOCK 3i LRIP 4-5 UPGRADE (OSIP 016-14)

Modification Item 1 of 1: F-35 CV BLOCK 3i LRIP 4-5 UPGRADE (OSIP 016-14)

Manufacturer Information

Manufacturer Name: Lockheed Martin ⁽²⁾				Manufacturer Location: Fort Worth, TX			
Administrative Leadtime (in Months): 11				Production Leadtime (in Months): 31			
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Aug 2015	Aug 2016					
Delivery Dates	Nov 2018	Apr 2019					

Installation Information

Method of Implementation: Depot Field Team:: Installation Name: Block 3i

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.109	- / -	- / -	- / -	- / 0.000	5 / 1.109
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.685	- / -	- / -	- / -	3 / 0.685
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.706	- / -	- / -	- / -	3 / 0.706
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.109	6 / 1.391	- / -	- / -	- / -	11 / 2.500

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	1	1	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	11
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	1	1	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	11

Footnotes:
⁽¹⁾ Prior Years (FY14) contract award date is Aug 2015, with deliveries beginning in Nov 2017. Programmatic slips in the contract award of Block 2B of eighteen (18) months, along with a slip in the development of Block 3i Hardware led to a delay in execution of FY14 and FY15 funding. Block 3i Hardware kits were developed utilizing SDD funds and were broken into the production line beginning with the production of LRIP 6, FY12 funded, jets. The funding associated with these Block 3i kits is inclusive of Block 3i hardware and software.

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 1 / F-35 CV BLOCK 3i LRIP 4-5 UPGRADE (OSIP 016-14)

⁽²⁾ Depot Field Team Install. Prior Years (FY14) contract award date is Aug 2015, with deliveries beginning in Nov 2017. Programmatic slips in the contract award of Block 2B of eighteen (18) months, along with a slip in the development of Block 3i Hardware led to a delay in execution of FY14 and FY15 funding.

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0593 / F-35 CV Series			Modification Number / Title: 2 / F-35 CV CONCURRENCY (OSIP 024-14)					

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2.336	1.367	38.804	24.949	-	24.949	47.413	17.518	12.764	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2.336	1.367	38.804	24.949	-	24.949	47.413	17.518	12.764	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2.336	1.367	38.804	24.949	-	24.949	47.413	17.518	12.764	-	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This effort (OSIP 024-14) funds retrofits due to concurrency changes to correct deficiencies discovered after DD-250 of the last aircraft in a given Low Rate Initial Production (LRIP) lot. This includes modifications required to extend aircraft service life currently limited by low-life parts, and relieve capability limitations driven by concurrency of production with development.

The concurrency funding line will procure the highest priority modifications from the Tri-Service Modification Prioritization List, as they become supportable from an engineering, production, and installation standpoint. The list is vetted by the Services and Partners every 6 months to ensure the list accurately reflects existing requirements as well as emerging issues. Per-kit costs will vary for each modification being implemented, and in some cases will also vary for aircraft from different LRIP lots to implement an individual modification. For FY17, the highest priority modifications will directly support USN Initial Operational Capability (IOC), pilot training and tactics development.

Total cost reflects procurement and installation costs in each fiscal year. Support costs include overall modification program planning, scheduling, and management; and support of Military and Service Depots and Depot Field Teams for incorporation of modifications.

The following modifications will be the highest priorities for accomplishment throughout the CV fleet using funds from this OSIP. The listed modifications include short-term requirements prior to IOC and priority modifications as long-term retrofit needs following IOC. FY17 concurrency funds will also be used to implement IOC modifications across the rest of the F-35C fleet.

TI Number	CR Title
TI-0000-0064	Counter Measures Door Control Valve Life Limitation on AF:6
TI-0000-0124	Controller, Motor Pump Qual Failure
TI-0000-0133	Filter Module, Pressure Qual Failure
TI-0000-0135	Engine Driven Pump Life Limit
TI-0000-0137	Pump, Motor GND Maint Qual Failure
TI-0000-0138	Wingtip Light Improvement For FAA Compliance
TI-0000-0158	WBDD Flexible Cable Re-design
TI-0000-0191	270V BCCU
TI-0000-0192	Gen II -10 Helmet Mounted Display Variance
TI-0000-0193	EW Gain State Control Logic Error
TI-0000-0208	CTOL Arresting Gear Push Rods - Incorrect Heat Treat for AI 2024-T4
TI-0000-0245	Update to Antenna Switch Unit for Cosite Function and Qualification Test Failures

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV CONCURRENCY (OSIP 024-14)
TI-0000-0260 Canopy Actuation System TI-0000-0281 Hoist Point Cover FIP Proposal TI-0000-0282 Update to Audio Control Electronics (ACE) Unit for Qualification Test Failures TI-0000-0286 Backup Radio (BuR) Indirect Lightning Qualification Test Failure TI-0000-0316 CTOL & CV FS 496 Bulkhead Trunnion TI-0000-0331 WBDDS RGAs Limited Life - Change Request Approval TI-0000-0336 Panoramic Cockpit Display (PCD) - DU TI-0000-0339 HMDS LRIP Subsystem Variance - UUT Outages TI-0000-0343 Panoramic Cockpit Display (PCD) Major Variances - EU TI-0000-0363 TRS Component Changes from Qual Test Failures TI-0000-0395 LEF Inbd Blade Seal Mousehole and CTOL LEF Lwr Inbd Blade Seal Failures TI-0000-0405 "EDU Random Vibration Failures Electrical Distribution Unit Full Qualification" TI-0000-0406 Ordnance Hoist System (OHS) Hoist TI-0000-0412 Wing Lighting Controller - Salt Fog Failure TI-0000-0423 Engine Interchangeability Bleed Air System Ducting Design TI-0000-0424 Firewall Shutoff Valve Part Number Roll TI-0000-0448 Add -0007 ASSCA/0006 ATQA to Aircraft TVE TI-0000-0469 Life Support System (OBOGS, Steel BOS, SIC, SPA, PIC and Composite BOS) TI-0000-0480 ICC Qual Issues TI-0000-0495 OBIGGS & Pressure/Vent Changes for Lightning Protection TI-0000-0516 AAR Probe Weak Link Adaptor Re-design TI-0000-0538 EHA Flaperon Support Equipment Locations TI-0000-0574 Electronics Units Modifications for EMI, Lightning and Qualification Compliance TI-0000-0575 ULF & 3BSD Emergency Control Valve TI-0000-0576 Refuel Probe/Tailhook Emergency Control Valve TI-0000-0578 Aux Inlet Door Emergency Control Valve TI-0000-0626 SMSFRIU SDD/LRIP Arm Disable Input TI-0000-0631 Countermeasures Doors & NNMSB/WSESRB Concerns TI-0000-0654 IDMS Connector Ref Des Swap TI-0000-0673 Ordnance Quick Latch System (OQLS) - Clip Lock TI-0000-0702 CV Fwd Arresting Gear Door Actuator Life Limitation TI-0000-0707 Air Data System Design Changes For -0004 Configuration TI-0000-0709 HT EHA Block Change TI-0000-0730 CV Rudder EHA TI-0000-0737 IPP Purge Issue Due to Low Fuel Shutdown TI-0000-0771 Install Battery into CNI Rack 3A and 3B TI-0000-0772 PTMS Turbomachine/ACCM Cable Interface Changes TI-0000-0808 Weapons Bay Door Uplock Sealing TI-0000-0810 2WSH64241: CV Life Limited Structures Part - Frame TI-0000-0811 2WSH54239 CV Life Limited Structures Part - Rear Spar TI-0000-0813 CV Life Limited Structures Part - LH/RH Pylon Sta 3 Aft Rib TI-0000-0815 2WSH24212: CV Life Limited Structures Part - FWD Upper Engine Mount TI-0000-0816 2WSH34496 - CV FS 496 Bikhed Station 6 TI-0000-0817 2WSH44162: CV Life Limited Structures Part - RH Tail Hook Longeron		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV CONCURRENCY (OSIP 024-14)
TI-0000-0842 2ESH10095 CV HT Rib 5 Life Limited Structures Part TI-0000-0845 2ESH16004 CV VT Aft Moment Fitting Life Limited Structures Part TI-0000-0854 DMCH MPEG VHDL Firmware Version TI-0000-0875 CV Main Landing Gear (MLG) Retract Actuator TI-0000-0895 Arm Disable Current Leakage Path Correction TI-0000-0898 Electronic Warfare Band 3/4 Antenna and Edge Performance Issues TI-0000-0913 LEFAS PDU Resolver and Rotor Shaft Seal Life TI-0000-0945 CTOL Audio Control Electronics (ACE) In-Flight Refueling TI-0000-0998 CTOL and CV Refuel System Mod TI-0000-1000 Inboard Weapon Bay Door Flipper Door Design Change TI-0000-1011 L-Band Pre-Selector (LBPS) Propagation Delay Calibration for Mode 5 TI-0000-1048 Panoramic Cockpit Display-Electronic Unit (PCD-EU) TI-0000-1060 Final Finishes TI-0000-1062 CV MLG TI-0000-1063 CV NLG TI-0000-1078 Nacelle Insulation TI-0000-1082 Power Panel 1 & 2 Random Vibration Failures - Second Failure TI-0000-1092 Landing Taxi Light Redesign TI-0000-1093 CV Arresting Gear TI-0000-1097 Ball Joint Salt Fog Failure TI-0000-1099 ATQA Mounting Bolt Interface TI-0000-1101 GMMP Controller EEE outage TI-0000-1102 BH-1 Weapons Bay Doors - AMRAAM Cradle Found Fatigue Cracks in Cradle Lugs @ 11,353 Hours TI-0000-1131 AESG Power Connector Rating (Generator) TI-0000-1122 LEFAS Foldbox Lug Cracking TI-0000-1198 HT Heating TI-0000-1207 Vehicle Management Computer (VMC) Electrical Connection Issue TI-0000-1255 Fibre Channel Switch Design Issues-0004 TI-0000-1256 CV Nose Landing Gear Drag Brace Door Cracking TI-0000-1365 Cat Launch Shock Exceeds INS PBS; Service Life failure updates and LBO TI-0000-1372 EW Block-2 DRFM Module Firmware Issue TI-0000-1396 HTCA with End Gland Material Issue TI-0000-1408 CCDD LRIP4/LRIP 5-016 EW: AEL, Aft Sector TI-0000-1446 CV Fuel Dump TI-0000-1483 Power Panel 3 Random Vibration Failures - Second Failure TI-0000-1485 F1 Feed Tank Gasket Spill Out/Removing F1 Feed Tank Cover Gasket And Reworking To Production Fay Seal Configuration TI-0000-1494 PTMS Turbomachine Configuration to Correct Qualification Failures TI-0000-1515 ESG Service Life (Generator) -0003 TI-0000-1518 Incorrect PAO Orifice In P5 Gp A Dummy LRU; Incorrect PAO Cooling Orifices In Center Fuselage Cold Liquid Loop TI-0000-1540 CV Rudder Hinge 2 TI-0000-1541 CV HT LOWER SKIN BOLTS SD-2013-010 TI-0000-1549 Firmware Update for AMS Cartridge Reset SPAR TI-0000-1551 28V Battery Full Qualification TI-0000-1552 28V BCCU Lightning Compliance - 28V Battery Charger		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV CONCURRENCY (OSIP 024-14)
<p>TI-0000-1589 Hydraulic System Single Point Failure</p> <p>TI-0000-1649 CV LEFAS Asymmetry Brake Lug Cracking</p> <p>TI-0000-1650 MWARS for Production Seat (LRIP 1-6)</p> <p>TI-0000-1652 Rudder Slider Hinge Wear</p> <p>TI-0000-1653 Ground Maintainance Valve Deletion to Prevent PAO in Cockpit (DR 1-4815699)</p> <p>TI-0000-1654 CV Right Hand (RH) Center Fuselage Avionics Bay Floor Fatigue Cracks</p> <p>TI-0000-1706 Insertion of updated DMCH into LRIP 6 with Night Vision Camera Image Quality Improvements</p> <p>TI-0000-1709 Carrier Variant Marker Beacon Antenna</p> <p>TI-0000-1761 HT EHA Solenoid Valve (SOV) Qual Test Failure</p> <p>TI-0000-1783 Canopy Boot Cracking</p> <p>TI-0000-1857 2GHH42033 Time Delay Valve - Fully Qualified Part</p> <p>TI-0000-2416 CV NLG Drag Strut - Alt Gear Extension</p> <p>TI-0000-2423 CV Lower FS 518 Design Change</p> <p>TI-0000-2448 CV Thrust Mount Shear Web - Service Life</p> <p>TI-0000-2450 Bleed Air Sensor Fitting Galling</p> <p>TI-0000-2513 CV IPP Shear Web Limited Life</p> <p>TI-0000-2528 270V Battery Gunfire Vibration Failure</p> <p>TI-0000-2548 CV Center Fuselage FS 402 Outboard Joint Limited Life</p> <p>TI-0000-2551 L-Band Power Amplifier (LBPA) Update for LINK-16</p> <p>TI-0000-2580 AESG -0004 Qual Failure</p> <p>TI-0000-2624 Lower Horizontal Tail Bullnose Panels Experiencing Coating Damage (panels 4134/4133)</p> <p>TI-0000-2635 CV NLG Interference Problems - OBOGs routing</p> <p>TI-0000-2659 Cockpit Green Indicator Bright/Dim Anomaly</p> <p>TI-0000-2672 Radome Shroud Gapping / Trimming</p> <p>TI-0000-2682 Incongruous illumination characteristics of AR probe light while centerline tanking on KC-10/KC-135</p> <p>TI-0000-2690 LAU-147 and BRU Vent Valve Under Full Pressure</p> <p>TI-0000-2699 Fibre Channel Switch Design Issues -0005</p> <p>TI-0000-2714 0025 Ejection Seat Qual Issues</p> <p>TI-0000-2784 CNI 3A & 3B Integrated Backplane Assembly (IBA) EMI Upgrades</p> <p>TI-0000-2799 CV Fuel Migration Issue</p> <p>TI-0000-2800 CNI TFR Module Humidity Qualification Test Failure</p> <p>TI-0000-2818 EOTS LoS Pointing Angle</p> <p>TI-0000-2829 Lower Leading Edge Flap Bladeseal Gapping - CV Only</p> <p>TI-0000-2891 OBIGGS Wash Pressure Buildup in Refuel Manifold</p> <p>TI-0000-2909 IPP Bay High Flow Air Duct Separation</p> <p>TI-0000-2931 CV NLG Drag Brace Cylinder and Steering Motor</p> <p>TI-0000-2956 CV (CJ-1) Spar 5 OB cracks</p> <p>TI-0000-2965 CV MLG Additional Qual Failures</p> <p>TI-0000-2974 F-35C Center Fuselage FS 402 Upper Inboard Frame Limited Life</p> <p>TI-0000-3051 F-35C FS 518 Fairing Support Frames Durability Life</p> <p>TI-0000-3081 CV Tailhook Uplock Actuator Qualification Failures</p> <p>TI-0000-3084 Landing Taxi Light Blockage from CV NLG Doors</p> <p>TI-0000-3100 Horizontal Tail Bearing Specification Change</p> <p>TI-0000-3103 CV Tailhook Fwd Door Actuator Qualification Failures</p>		

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV CONCURRENCY (OSIP 024-14)
TI-0000-3128 F-35C HT EHA Transfer Tube Seal Qual Test Failure TI-0000-3156 F-35C BL 12 Splice @ FS 425 Short Life TI-0000-3194 Landing Aid Down Converter (LADC) Qualification Test Failure TI-0000-3273 F-35C Arresting Hook Bay-Production Mod Bushing Changes TI-0000-3274 F-35C MLG Torque Arm Bracket, Brake Line & Retract Actuator TI-0000-3276 F-35C NLG Centering Cam & Steer Collar Manifold TI-0000-3277 F-35C Flaperon EHA Balanced Pump Qual Test Failure TI-0000-3279 CV Drag Brace Cylinder Attachement Hardware TI-0000-3285 Egress System Safe Escape Intro for -6 Seat TI-0000-3352 F-35C BL 12 Longeron Limited Life TI-0000-3424 CV Arresting Hook Pitch Pivot Pin Bushing Replacement TI-9999-0191 Interim Solution - 270V BCCU TI-9999-1062 Interim Solution - CV Main Landing Gear TI-9999-1650 MWARS for Production Seat - LRIP 5 Only DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES For the F-35 program, the emergence of new concurrency issues is expected to phase out with the completion of SDD in the FY18 timeframe.		

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 2 / F-35 CV CONCURRENCY (OSIP 024-14)			
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: F-35 CV CONCURRENCY (OSIP 024-14)</i>													
A Kits													
Recurring													
1.1.1) Structures - Organic	- / -	- / 0.177	- / 21.821	- / 11.227	- / -	- / 11.227	- / 19.913	- / 7.357	- / 4.347	- / -	Continuing	Continuing	
1.1.2) Concurrency - Organic	- / 2.336	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.336	
1.1.3) Mission Systems - Organic	- / -	- / 0.178	- / 3.190	- / 2.495	- / -	- / 2.495	- / 4.267	- / 1.401	- / 0.971	- / -	Continuing	Continuing	
1.1.4) Vehicle Systems - Organic	- / -	- / 0.178	- / 5.633	- / 4.491	- / -	- / 4.491	- / 14.224	- / 3.679	- / 1.036	- / -	Continuing	Continuing	
1.1.5) Propulsion - Organic	- / -	- / 0.178	- / 6.000	- / 3.243	- / -	- / 3.243	- / 3.319	- / 2.277	- / 4.143	- / -	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 2.336	- / 0.711	- / 36.644	- / 21.456	- / -	- / 21.456	- / 41.723	- / 14.714	- / 10.497	- / -	Continuing	Continuing	
<i>Subtotal: F-35 CV CONCURRENCY (OSIP 024-14)</i>	- / 2.336	- / 0.711	- / 36.644	- / 21.456	- / -	- / 21.456	- / 41.723	- / 14.714	- / 10.497	- / -	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / 2.336	- / 0.711	- / 36.644	- / 21.456	- / -	- / 21.456	- / 41.723	- / 14.714	- / 10.497	- / -	Continuing	Continuing	
Support (All Modification Items)													
2.1) Other Support	- / -	- / -	- / 0.960	- / 1.247	- / -	- / 1.247	- / 2.846	- / 1.051	- / 0.843	- / -	Continuing	Continuing	
2.2) ILS	- / -	- / 0.656	- / 1.200	- / 2.246	- / -	- / 2.246	- / 2.844	- / 1.753	- / 1.424	- / -	Continuing	Continuing	
<i>Subtotal: Support</i>	- / 0.000	- / 0.656	- / 2.160	- / 3.493	- / -	- / 3.493	- / 5.690	- / 2.804	- / 2.267	- / -	Continuing	Continuing	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	2.336	1.367	38.804	24.949	-	24.949	47.413	17.518	12.764	-	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV CONCURRENCY (OSIP 024-14)
Modification Item 1 of 1: F-35 CV CONCURRENCY (OSIP 024-14)		

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Exhibit P-3a, Individual Modification: PB 2017 Navy							Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0593 / F-35 CV Series			Modification Number / Title: 3 / F-35 CV BLOCK 3F LRIP 4-8 UPGRADE (OSIP 005-17)					

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	0.005	-	0.005	0.253	1.812	0.165	-	-	2.235
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	0.005	-	0.005	0.253	1.812	0.165	-	-	2.235
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	0.005	-	0.005	0.253	1.812	0.165	-	-	2.235
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The block upgrade program retrofits United States Navy F-35C aircraft and integrated systems procured under the Low Rate Initial Production (LRIP) contracts to a final Block 3F configuration. The retrofits to enable the final Block 3F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

This effort (OSIP 005-17) focuses on the Block 3F configuration upgrade effort for 11 LRIP 4-5 and 15 LRIP 6-8 F-35C aircraft and integrated systems. All of the LRIP 4-5 F-35C aircraft receiving the Block 3F software under this OSIP will have already received the Block 3i hardware under OSIP 016-14. This effort purchases all necessary software and installation labor to ensure all LRIP 4-8 F-35C aircraft are upgraded to a Block 3F baseline for full warfighting capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

Block 3F Fleet Release is planned to occur by 3rd Q FY17.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0593 / F-35 CV Series						Modification Number / Title: 3 / F-35 CV BLOCK 3F LRIP 4-8 UPGRADE (OSIP 005-17)			
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: F-35 CV BLOCK 3F LRIP 4-8 UPGRADE (OSIP 005-17)</i>													
B Kits													
Recurring													
1.1.1) Block 3F LRIP 4-5 - NonOrganic	- / -	- / -	- / -	5 / 0.005	- / -	5 / 0.005	3 / 0.003	3 / 0.003	- / -	- / -	- / -	11 / 0.011	
1.1.2) Block 3F LRIP 6-8 - Organic ⁽³⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.015	- / -	- / -	15 / 0.015	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / 0.005	- / -	- / 0.005	- / 0.003	- / 0.003	- / 0.015	- / -	- / -	- / 0.026	
<i>Subtotal: F-35 CV BLOCK 3F LRIP 4-8 UPGRADE (OSIP 005-17)</i>	- / -	- / -	- / -	5 / 0.005	- / -	5 / 0.005	3 / 0.003	3 / 0.003	15 / 0.015	- / -	- / -	26 / 0.026	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 0.005	- / -	- / 0.005	- / 0.003	- / 0.003	- / 0.015	- / -	- / -	- / 0.026	
Support (All Modification Items)													
2.1) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.659	- / -	- / -	- / -	- / 1.659	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.659	- / -	- / -	- / -	- / 1.659	
Installation													
<i>Modification Item 1 of 1: F-35 CV BLOCK 3F LRIP 4-8 UPGRADE (OSIP 005-17)</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.250	- / 0.150	- / 0.150	- / -	- / -	- / 0.550	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.250	- / 0.150	- / 0.150	- / -	- / -	- / 0.550	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	0.005	-	0.005	0.253	1.812	0.165	-	-	2.235	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 3 / F-35 CV BLOCK 3F LRIP 4-8 UPGRADE (OSIP 005-17)

Modification Item 1 of 1: F-35 CV BLOCK 3F LRIP 4-8 UPGRADE (OSIP 005-17)

Manufacturer Information

Manufacturer Name: Lockheed Martin - Block 3F LRIP 4-5	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 11	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Aug 2017	Aug 2018	Aug 2019		
Delivery Dates			Nov 2017	Nov 2018	Nov 2019		

Installation Information

Method of Implementation: [none specified]:: Installation Name: Block 3F LRIP 4-5

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.250	- / -	- / -	- / -	- / -	5 / 0.250
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.150	- / -	- / -	- / -	3 / 0.150
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.150	- / -	- / -	3 / 0.150
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.250	3 / 0.150	3 / 0.150	- / -	- / -	11 / 0.550

Installation Schedule

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	1	1	1	1	-	2	1	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	1	1	1	1	-	2	1	-	-	-	-	-	-	-	-

Method of Implementation (Organic): Block 3F LRIP 6-8 **Installation Quantity:** 15

Footnotes:
⁽³⁾ LRIP 6-8 aircraft were delivered in a Block 3i configuration. Block 3F installation will occur at the O-Level.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0595 / QRC
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	6.885	5.476	-	5.476	2.400	2.728	3.131	3.199	-	23.819
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	6.885	5.476	-	5.476	2.400	2.728	3.131	3.199	-	23.819
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	6.885	5.476	-	5.476	2.400	2.728	3.131	3.199	-	23.819

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Details of this P-1 item are classified.

Justification:

Justification of this request is provided separately.

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