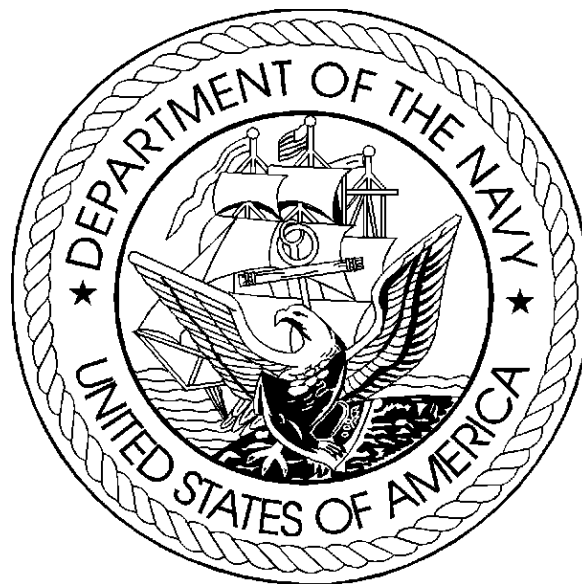


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**Department of Defense  
Fiscal Year (FY) 2013 President's Budget Submission**

February 2012



**Navy**

*Justification Book Volume 3*

***Other Procurement, Navy***

**Budget Activity 3**

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Navy • President's Budget Submission FY 2013 • Procurement

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## Department of Defense Appropriations Act, 2013

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### **Other Procurement, Navy**

For procurement, production, and modernization of support equipment and materials not otherwise provided for, Navy ordnance (except ordnance for new aircraft, new ships, and ships authorized for conversion); the purchase of passenger motor vehicles for replacement only; 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, \$6,268,260,000, to remain available for obligation until September 30, 2015.

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Department of the Navy  
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 Total Obligational Authority  
 (Dollars in Thousands)

18 Jan 2012

Appropriation	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Other Procurement, Navy	6,155,718	6,013,385	236,125	6,249,510
Total Department of the Navy	6,155,718	6,013,385	236,125	6,249,510

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Department of the Navy  
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(Dollars in Thousands)

18 Jan 2012

Appropriation -----	FY 2013 Base -----	FY 2013 OCO -----	FY 2013 Total -----
Other Procurement, Navy	6,169,378	98,882	6,268,260
Total Department of the Navy	6,169,378	98,882	6,268,260

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Department of the Navy  
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 (Dollars in Thousands)

18 Jan 2012

## Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2011 Actuals -----	FY 2012 Base -----	FY 2012 OCO -----	FY 2012 Total -----
01. Ships Support Equipment	2,290,251	2,318,059		2,318,059
02. Communications & Electronics Equip	1,785,333	1,922,229		1,922,229
03. Aviation Support Equipment	331,702	327,779	90,026	417,805
04. Ordnance Support Equipment	655,063	664,008	15,700	679,708
05. Civil Engineering Support Equip	268,361	70,919	20,592	91,511
06. Supply Support Equipment	126,702	72,735	3,644	76,379
07. Personnel & Command Support Equip	478,626	429,272	105,690	534,962
08. Spares and Repair Parts	219,680	208,384	473	208,857
Total Other Procurement, Navy	6,155,718	6,013,385	236,125	6,249,510

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 (Dollars in Thousands)

18 Jan 2012

## Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2013 Base -----	FY 2013 OCO -----	FY 2013 Total -----
01. Ships Support Equipment	2,031,882		2,031,882
02. Communications & Electronics Equip	2,163,239	3,603	2,166,842
03. Aviation Support Equipment	440,429	58,200	498,629
04. Ordnance Support Equipment	645,465		645,465
05. Civil Engineering Support Equip	83,519	24,756	108,275
06. Supply Support Equipment	62,877		62,877
07. Personnel & Command Support Equip	491,249	12,323	503,572
08. Spares and Repair Parts	250,718		250,718
Total Other Procurement, Navy	6,169,378	98,882	6,268,260

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Department of the Navy  
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 Total Obligational Authority  
 (Dollars in Thousands)

18 Jan 2012

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2011 Actuals		FY 2012 Base		FY 2012 OCO		FY 2012 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ships Support Equipment											
-----											
Ship Propulsion Equipment											
1	LM-2500 Gas Turbine	A		10,468		13,794				13,794	U
2	Allison 501k Gas Turbine	A		14,842		8,643				8,643	U
Navigation Equipment											
3	Other Navigation Equipment	A		23,042		20,582				20,582	U
Periscopes											
4	Sub Periscopes & Imaging Equip	A		72,360		57,033				57,033	U
Other Shipboard Equipment											
5	DDG Mod	A		288,118		117,522				117,522	U
6	Firefighting Equipment	A		7,626		17,637				17,637	U
7	Command And Control Switchboard	A		2,349		3,049				3,049	U
8	Pollution Control Equipment	B		25,474		22,266				22,266	U
9	Submarine Support Equipment	A		7,688		14,122				14,122	U
10	Virginia Class Support Equipment	A		129,334		93,487				93,487	U
11	LCS Class Support Equipment										U
12	Submarine Batteries			30,888		42,296				42,296	U
13	LPD Class Support Equipment										U
14	Strategic Platform Support Equip	A		22,988		25,228				25,228	U
15	DSSP Equipment	A		3,848		2,600				2,600	U
16	CG Modernization	A		348,934		573,349				573,349	U

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18 Jan 2012

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2013 Base		FY 2013 OCO		FY 2013 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ships Support Equipment									
Ship Propulsion Equipment									
1	LM-2500 Gas Turbine	A		10,658			10,658		U
2	Allison 501k Gas Turbine	A		8,469			8,469		U
Navigation Equipment									
3	Other Navigation Equipment	A		23,392			23,392		U
Periscopes									
4	Sub Periscopes & Imaging Equip	A		53,809			53,809		U
Other Shipboard Equipment									
5	DDG Mod	A		452,371			452,371		U
6	Firefighting Equipment	A		16,958			16,958		U
7	Command And Control Switchboard	A		2,492			2,492		U
8	Pollution Control Equipment	B		20,707			20,707		U
9	Submarine Support Equipment	A		12,046			12,046		U
10	Virginia Class Support Equipment	A		79,870			79,870		U
11	LCS Class Support Equipment			19,865			19,865		U
12	Submarine Batteries			41,522			41,522		U
13	LPD Class Support Equipment			30,543			30,543		U
14	Strategic Platform Support Equip	A		16,257			16,257		U
15	DSSP Equipment	A		3,630			3,630		U
16	CG Modernization	A		101,000			101,000		U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2011 Actuals		FY 2012 Base		FY 2012 OCO		FY 2012 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
17	LCAC	A		2,628							U
18	Underwater Eod Programs			15,822		17,499				17,499	U
19	Items Less Than \$5 Million	A		113,367		93,401				93,401	U
20	Chemical Warfare Detectors	A		7,430		5,508				5,508	U
21	Submarine Life Support System	A		12,945		13,397				13,397	U
	Reactor Plant Equipment										
22	Reactor Power Units	A		429,420		436,838				436,838	U
23	Reactor Components	A		265,022		271,600				271,600	U
	Ocean Engineering										
24	Diving And Salvage Equipment	A		10,172		9,644				9,644	U
	Small Boats										
25	Standard Boats	A		72,665		33,653				33,653	U
	Training Equipment										
26	Other Ships Training Equipment	A		16,006		29,913				29,913	U
	Production Facilities Equipment										
27	Operating Forces Ipe	A		90,109		54,642				54,642	U
	Other Ship Support										
28	Nuclear Alterations	A		116,196		144,175				144,175	U
29	LCS Common Mission Modules Equipment			41,145		63,448				63,448	U
30	LCS MCM Mission Modules										U
31	LCS SUW Mission Modules										U

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Line No	Item Nomenclature	Ident Code	FY 2013 Base		FY 2013 OCO		FY 2013 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
17	LCAC	A		16,645			16,645	U	
18	Underwater Eod Programs			35,446			35,446	U	
19	Items Less Than \$5 Million	A		65,998			65,998	U	
20	Chemical Warfare Detectors	A		4,359			4,359	U	
21	Submarine Life Support System	A		10,218			10,218	U	
	Reactor Plant Equipment								
22	Reactor Power Units	A		286,859			286,859	U	
23	Reactor Components	A		278,503			278,503	U	
	Ocean Engineering								
24	Diving And Salvage Equipment	A		8,998			8,998	U	
	Small Boats								
25	Standard Boats	A		30,131			30,131	U	
	Training Equipment								
26	Other Ships Training Equipment	A		29,772			29,772	U	
	Production Facilities Equipment								
27	Operating Forces Ipe	A		64,346			64,346	U	
	Other Ship Support								
28	Nuclear Alterations	A		154,652			154,652	U	
29	LCS Common Mission Modules Equipment			31,319			31,319	U	
30	LCS MCM Mission Modules			38,392			38,392	U	
31	LCS SUW Mission Modules			32,897			32,897	U	

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Department of the Navy  
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Line No	Item Nomenclature	Ident Code	FY 2011 Actuals		FY 2012 Base		FY 2012 OCO		FY 2012 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Logistic Support											
32	LSD Midlife			109,365		132,733				132,733	U
Total Ships Support Equipment				2,290,251		2,318,059				2,318,059	
Budget Activity 02: Communications & Electronics Equip											
Ship Radars											
33	Radar Support	A		6,962		10,618				10,618	U
Ship Sonars											
34	SPQ-9B Radar	A		5,656		18,236				18,236	U
35	AN/SQQ-89 Surf ASW Combat System	A		89,157		71,771				71,771	U
36	SSN Acoustics	A		232,743		212,913				212,913	U
37	Undersea Warfare Support Equipment	A		27,095		25,686				25,686	U
38	Sonar Switches And Transducers	A		12,985		13,537				13,537	U
39	Electronic Warfare MILDEC	A				16,841				16,841	U
Asw Electronic Equipment											
40	Submarine Acoustic Warfare System	A		18,438		20,554				20,554	U
41	SSTD	A				1,257				1,257	U
42	Fixed Surveillance System	A		57,169		60,141				60,141	U
43	Surtass	A		8,422		25,547				25,547	U
44	Maritime Patrol and Reconnsaissance Force	A		18,485		13,453				13,453	U
Electronic Warfare Equipment											
45	AN/SLQ-32	A		23,131		39,902				39,902	U

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Line No	Item Nomenclature	Ident Code	FY 2013 Base		FY 2013 OCO		FY 2013 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Logistic Support									
32	LSD Midlife			49,758				49,758	U
Total Ships Support Equipment				2,031,882				2,031,882	
Budget Activity 02: Communications & Electronics Equip									
Ship Radars									
33	Radar Support	A							U
Ship Sonars									
34	SPQ-9B Radar	A		19,777				19,777	U
35	AN/SQQ-89 Surf ASW Combat System	A		89,201				89,201	U
36	SSN Acoustics	A		190,874				190,874	U
37	Undersea Warfare Support Equipment	A		17,035				17,035	U
38	Sonar Switches And Transducers	A		13,410				13,410	U
39	Electronic Warfare MILDEC	A							U
Asw Electronic Equipment									
40	Submarine Acoustic Warfare System	A		21,489				21,489	U
41	SSTD	A		10,716				10,716	U
42	Fixed Surveillance System	A		98,896				98,896	U
43	Surtass	A		2,774				2,774	U
44	Maritime Patrol and Reconnsaissance Force	A		18,428				18,428	U
Electronic Warfare Equipment									
45	AN/SLQ-32	A		92,270				92,270	U

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Line No	Item Nomenclature	Ident Code	FY 2011 Actuals		FY 2012 Base		FY 2012 OCO		FY 2012 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Reconnaissance Equipment											
46	Shipboard IW Exploit	A		108,551		100,745				100,745	U
47	Automated Identification System (AIS)			1,292		1,364				1,364	U
Submarine Surveillance Equipment											
48	Submarine Support Equipment Prog	A		69,728		89,241				89,241	U
Other Ship Electronic Equipment											
49	Cooperative Engagement Capability	B		25,551		19,332				19,332	U
50	Trusted Information System (TIS)			336		426				426	U
51	Naval Tactical Command Support System (NTCSS)	A		33,176		33,017				33,017	U
52	ATDLS	A		2,260		942				942	U
53	Navy Command and Control System (NCCS)			8,872		7,896				7,896	U
54	Minesweeping System Replacement	A		79,641		27,868				27,868	U
55	Shallow Water MCM	B		1,254		1,048				1,048	U
56	Navstar GPS Receivers (SPACE)	A		9,269		9,926				9,926	U
57	American Forces Radio and TV Service	A		3,311		4,370				4,370	U
58	Strategic Platform Support Equip	A		4,225		4,143				4,143	U
Training Equipment											
59	Other Training Equipment	A		27,611		35,189				35,189	U
Aviation Electronic Equipment											
60	Matcals	A		39,747		13,368				13,368	U
61	Shipboard Air Traffic Control	B		7,617		7,394				7,394	U

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Line No	Item Nomenclature	Ident Code	FY 2013 Base		FY 2013 OCO		FY 2013 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Reconnaissance Equipment									
46	Shipboard IW Exploit	A		107,060			107,060		U
47	Automated Identification System (AIS)			914			914		U
Submarine Surveillance Equipment									
48	Submarine Support Equipment Prog	A		34,050			34,050		U
Other Ship Electronic Equipment									
49	Cooperative Engagement Capability	B		27,881			27,881		U
50	Trusted Information System (TIS)			448			448		U
51	Naval Tactical Command Support System (NTCSS)	A		35,732			35,732		U
52	ATDLS	A							U
53	Navy Command and Control System (NCCS)			9,533			9,533		U
54	Minesweeping System Replacement	A		60,111			60,111		U
55	Shallow Water MCM	B		6,950			6,950		U
56	Navstar GPS Receivers (SPACE)	A		9,089			9,089		U
57	American Forces Radio and TV Service	A		7,768			7,768		U
58	Strategic Platform Support Equip	A		3,614			3,614		U
Training Equipment									
59	Other Training Equipment	A		42,911			42,911		U
Aviation Electronic Equipment									
60	Matcals	A		5,861			5,861		U
61	Shipboard Air Traffic Control	B		8,362			8,362		U

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Line No	Item Nomenclature	Ident Code	FY 2011 Actuals		FY 2012 Base		FY 2012 OCO		FY 2012 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
62	Automatic Carrier Landing System	A		10,724		17,018				17,018	U
63	National Air Space System	B		17,436		24,581				24,581	U
64	Fleet Air Traffic Control Systems	A		6,814		7,213				7,213	U
65	Landing Systems	A		8,505		7,138				7,138	U
66	ID Systems	A		22,998		31,470				31,470	U
67	Naval Mission Planning Systems	A		7,756		8,941				8,941	U
Other Shore Electronic Equipment											
68	Deployable Joint Command And Cont	A		23,196		8,994				8,994	U
69	Maritime Integrated Broadcast System			2,928		13,529				13,529	U
70	Tactical/Mobile C4I Systems	A		9,778		10,876				10,876	U
71	DCGS-N	A		16,543		11,201				11,201	U
72	CANES			10,208		96,088				96,088	U
73	Radiac	A		4,869		6,201				6,201	U
74	CANES-Intell			3,123		72,313				72,313	U
75	Gpete	A		5,829		6,010				6,010	U
76	Integ Combat System Test Facility	A		4,421		4,441				4,441	U
77	EMI Control Instrumentation	A		6,511		4,741				4,741	U
78	Items Less Than \$5 Million	A		31,563		42,416				42,416	U
Shipboard Communications											
79	Shipboard Tactical Communications	A				1,494				1,494	U
80	Ship Communications Automation	A		229,250		255,110				255,110	U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2013 Base		FY 2013 OCO		FY 2013 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
62	Automatic Carrier Landing System	A		15,685			15,685	U	
63	National Air Space System	B		16,919			16,919	U	
64	Fleet Air Traffic Control Systems	A		6,828			6,828	U	
65	Landing Systems	A		7,646			7,646	U	
66	ID Systems	A		35,474			35,474	U	
67	Naval Mission Planning Systems	A		9,958			9,958	U	
Other Shore Electronic Equipment									
68	Deployable Joint Command And Cont	A		9,064			9,064	U	
69	Maritime Integrated Broadcast System			16,026			16,026	U	
70	Tactical/Mobile C4I Systems	A		11,886	3,603		15,489	U	
71	DCGS-N	A		11,887			11,887	U	
72	CANES			341,398			341,398	U	
73	Radiac	A		8,083			8,083	U	
74	CANES-Intell			79,427			79,427	U	
75	Gpete	A		6,083			6,083	U	
76	Integ Combat System Test Facility	A		4,495			4,495	U	
77	EMI Control Instrumentation	A		4,767			4,767	U	
78	Items Less Than \$5 Million	A		81,755			81,755	U	
Shipboard Communications									
79	Shipboard Tactical Communications	A						U	
80	Ship Communications Automation	A		56,870			56,870	U	

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2011 Actuals		FY 2012 Base		FY 2012 OCO		FY 2012 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
81	Maritime Domain Awareness (MDA)	A		7,608		24,022				24,022	U
82	Communications Items Under \$5M	A		30,981		27,544				27,544	U
	Submarine Communications										
83	Submarine Broadcast Support	A				10,357				10,357	U
84	Submarine Communication Equipment	A		55,434		74,047				74,047	U
	Satellite Communications										
85	Satellite Communications Systems	A		28,650		25,522				25,522	U
86	Navy Multiband Terminal (NMT)			91,607		107,242				107,242	U
	Shore Communications										
87	JCS Communications Equipment	A		2,244		2,186				2,186	U
88	Electrical Power Systems	A		1,302		1,329				1,329	U
89	Naval Shore Communications	A		3,404		2,418				2,418	U
	Cryptographic Equipment										
90	Info Systems Security Program (ISSP)	A		128,777		109,394				109,394	U
	Cryptologic Equipment										
91	Cryptologic Communications Equip	A		18,223		14,820				14,820	U
	Other Electronic Support										
92	Coast Guard Equipment	A		20,080		6,848				6,848	U
93	Defense Rapid Innovation Program			14,919							U

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Line No	Item Nomenclature	Ident Code	FY 2013 Base		FY 2013 OCO		FY 2013 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
81	Maritime Domain Awareness (MDA)	A		1,063			1,063		U
82	Communications Items Under \$5M	A		28,522			28,522		U
	Submarine Communications								
83	Submarine Broadcast Support	A		4,183			4,183		U
84	Submarine Communication Equipment	A		69,025			69,025		U
	Satellite Communications								
85	Satellite Communications Systems	A		49,294			49,294		U
86	Navy Multiband Terminal (NMT)			184,825			184,825		U
	Shore Communications								
87	JCS Communications Equipment	A		2,180			2,180		U
88	Electrical Power Systems	A		1,354			1,354		U
89	Naval Shore Communications	A							U
	Cryptographic Equipment								
90	Info Systems Security Program (ISSP)	A		144,104			144,104		U
	Cryptologic Equipment								
91	Cryptologic Communications Equip	A		12,604			12,604		U
	Other Electronic Support								
92	Coast Guard Equipment	A		6,680			6,680		U
93	Defense Rapid Innovation Program								U



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Line No	Item Nomenclature	Ident Code	FY 2011 Actuals		FY 2012 Base		FY 2012 OCO		FY 2012 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Drug Interdiction Support											
94	Other Drug Interdiction Support	A		36,968							U
Total Communications & Electronics Equip				1,785,333		1,922,229				1,922,229	
Budget Activity 03: Aviation Support Equipment											
Sonobuoys											
95	Sonobuoys - All Types	A		83,391		94,814				94,814	U
Aircraft Support Equipment											
96	Weapons Range Support Equipment	A		59,376		50,197				50,197	U
97	Expeditionary Airfields	A		12,983		8,561		47,000		55,561	U
98	Aircraft Rearming Equipment	A		11,074		5,587				5,587	U
99	Aircraft Launch & Recovery Equipment	A		28,724		19,777				19,777	U
100	Meteorological Equipment	A		25,442		19,478		10,800		30,278	U
101	DCRS/DPL	A		1,565		1,595				1,595	U
102	Aviation Life Support	A		34,685		60,919		14,000		74,919	U
103	Airborne Mine Countermeasures	A		35,661		33,515				33,515	U
104	Lamps MK III Shipboard Equipment	A		16,294		12,908				12,908	U
105	Portable Electronic Maintenance Aids			10,554		7,875				7,875	U
106	Other Aviation Support Equipment	A		11,953		12,553		18,226		30,779	U
107	Autonomic Logistics Information System (ALIS)										U
Total Aviation Support Equipment				331,702		327,779		90,026		417,805	

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Line No	Item Nomenclature	Ident Code	FY 2013 Base		FY 2013 OCO		FY 2013 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Drug Interdiction Support									
94	Other Drug Interdiction Support	A							U
Total Communications & Electronics Equip				2,163,239		3,603		2,166,842	
Budget Activity 03: Aviation Support Equipment									
Sonobuoys									
95	Sonobuoys - All Types	A		104,677				104,677	U
Aircraft Support Equipment									
96	Weapons Range Support Equipment	A		70,753				70,753	U
97	Expeditionary Airfields	A		8,678		58,200		66,878	U
98	Aircraft Rearming Equipment	A		11,349				11,349	U
99	Aircraft Launch & Recovery Equipment	A		82,618				82,618	U
100	Meteorological Equipment	A		18,339				18,339	U
101	DCRS/DPL	A		1,414				1,414	U
102	Aviation Life Support	A		40,475				40,475	U
103	Airborne Mine Countermeasures	A		61,552				61,552	U
104	Lamps MK III Shipboard Equipment	A		18,771				18,771	U
105	Portable Electronic Maintenance Aids			7,954				7,954	U
106	Other Aviation Support Equipment	A		10,023				10,023	U
107	Autonomic Logistics Information System (ALIS)			3,826				3,826	U
Total Aviation Support Equipment				440,429		58,200		498,629	

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Line No	Item Nomenclature	Ident Code	FY 2011 Actuals		FY 2012 Base		FY 2012 OCO		FY 2012 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 04: Ordnance Support Equipment											
Ship Gun System Equipment											
108	Naval Fires Control System	A		1,080		2,049				2,049	U
109	Gun Fire Control Equipment	A		8,032		4,488				4,488	U
Ship Missile Systems Equipment											
110	NATO Seasparrow	A		10,106		8,926				8,926	U
111	RAM GMLS	A		6,763		3,128				3,128	U
112	Ship Self Defense System	B		43,239		54,324				54,324	U
113	AEGIS Support Equipment	A		81,860		43,148				43,148	U
114	Tomahawk Support Equipment	A		88,217		70,261				70,261	U
115	Vertical Launch Systems	A		5,668		732				732	U
116	Maritime Integrated Planning System-MIPS	A				4,823				4,823	U
Fbm Support Equipment											
117	Strategic Missile Systems Equip	A		158,171		187,807				187,807	U
Asw Support Equipment											
118	SSN Combat Control Systems	A		77,771		89,096				89,096	U
119	Submarine ASW Support Equipment	A		5,254		5,241				5,241	U
120	Surface ASW Support Equipment	A		8,278		5,816				5,816	U
121	ASW Range Support Equipment	A		7,082		7,842				7,842	U
Other Ordnance Support Equipment											
122	Explosive Ordnance Disposal Equip	B		73,058		96,947		15,700		112,647	U

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Line No	Item Nomenclature	Ident Code	FY 2013 Base		FY 2013 OCO		FY 2013 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 04: Ordnance Support Equipment									
Ship Gun System Equipment									
108	Naval Fires Control System	A		3,472				3,472	U
109	Gun Fire Control Equipment	A		4,528				4,528	U
Ship Missile Systems Equipment									
110	NATO Seasparrow	A		8,960				8,960	U
111	RAM GMLS	A		1,185				1,185	U
112	Ship Self Defense System	B		55,371				55,371	U
113	AEGIS Support Equipment	A		81,614				81,614	U
114	Tomahawk Support Equipment	A		77,767				77,767	U
115	Vertical Launch Systems	A		754				754	U
116	Maritime Integrated Planning System-MIPS	A		4,965				4,965	U
Fbm Support Equipment									
117	Strategic Missile Systems Equip	A		181,049				181,049	U
Asw Support Equipment									
118	SSN Combat Control Systems	A		71,316				71,316	U
119	Submarine ASW Support Equipment	A		4,018				4,018	U
120	Surface ASW Support Equipment	A		6,465				6,465	U
121	ASW Range Support Equipment	A		47,930				47,930	U
Other Ordnance Support Equipment									
122	Explosive Ordnance Disposal Equip	B		3,579				3,579	U

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Line No	Item Nomenclature	Ident Code	FY 2011 Actuals		FY 2012 Base		FY 2012 OCO		FY 2012 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
123	Items Less Than \$5 Million	A		2,466		4,073				4,073	U
	Other Expendable Ordnance										
124	Anti-Ship Missile Decoy System	A		36,389		32,716				32,716	U
125	Surface Training Device Mods	A		7,297		5,814				5,814	U
126	Submarine Training Device Mods	A		34,332		36,777				36,777	U
	Total Ordnance Support Equipment			655,063		664,008		15,700		679,708	
Budget Activity 05: Civil Engineering Support Equip											
-----											
Civil Engineering Support Equipment											
127	Passenger Carrying Vehicles	A		4,652		4,771		2,628		7,399	U
128	General Purpose Trucks	A		951		3,202				3,202	U
129	Construction & Maintenance Equip	A		55,074		9,850		13,290		23,140	U
130	Fire Fighting Equipment	A		12,784		14,315		3,672		17,987	U
131	Tactical Vehicles	B		134,350		16,502				16,502	U
132	Amphibious Equipment	A		3,115		3,235				3,235	U
133	Pollution Control Equipment	A		5,126		7,175				7,175	U
134	Items Under \$5 Million	A		51,187		10,727		1,002		11,729	U
135	Physical Security Vehicles	A		1,122		1,142				1,142	U
	Total Civil Engineering Support Equip			268,361		70,919		20,592		91,511	

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Line No	Item Nomenclature	Ident Code	FY 2013 Base		FY 2013 OCO		FY 2013 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
123	Items Less Than \$5 Million	A		3,125				3,125	U
	Other Expendable Ordnance								
124	Anti-Ship Missile Decoy System	A		31,743				31,743	U
125	Surface Training Device Mods	A		34,174				34,174	U
126	Submarine Training Device Mods	A		23,450				23,450	U
	Total Ordnance Support Equipment			645,465				645,465	
Budget Activity 05: Civil Engineering Support Equip									
-----									
	Civil Engineering Support Equipment								
127	Passenger Carrying Vehicles	A		7,158		3,901		11,059	U
128	General Purpose Trucks	A		3,325		852		4,177	U
129	Construction & Maintenance Equip	A		8,692		2,436		11,128	U
130	Fire Fighting Equipment	A		14,533		3,798		18,331	U
131	Tactical Vehicles	B		15,330		13,394		28,724	U
132	Amphibious Equipment	A		10,803				10,803	U
133	Pollution Control Equipment	A		7,265				7,265	U
134	Items Under \$5 Million	A		15,252		375		15,627	U
135	Physical Security Vehicles	A		1,161				1,161	U
	Total Civil Engineering Support Equip			83,519		24,756		108,275	

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 06: Supply Support Equipment											
-----											
Supply Support Equipment											
136	Materials Handling Equipment	A		47,614		9,972		3,644		13,616	U
137	Other Supply Support Equipment	A		6,619		4,453				4,453	U
138	First Destination Transportation	A		6,281		6,416				6,416	U
139	Special Purpose Supply Systems	A		66,188		51,894				51,894	U
Total Supply Support Equipment				-----		-----		-----		-----	
				126,702		72,735		3,644		76,379	
Budget Activity 07: Personnel & Command Support Equip											
-----											
Training Devices											
140	Training Support Equipment	A		11,423		16,353				16,353	U
Command Support Equipment											
141	Command Support Equipment	A		42,591		26,321		3,310		29,631	U
142	Education Support Equipment	A		2,056		2,197				2,197	U
143	Medical Support Equipment	A		5,649		14,175				14,175	U
146	Naval MIP Support Equipment	A		1,425		1,457				1,457	U
148	Operating Forces Support Equipment	A		12,685		15,330		6,977		22,307	U
149	C4ISR Equipment	A		5,288		136		24,762		24,898	U
150	Environmental Support Equipment	A		19,926		18,639				18,639	U
151	Physical Security Equipment	A		192,752		177,240		70,641		247,881	U

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Line No	Item Nomenclature	Ident Code	FY 2013 Base		FY 2013 OCO		FY 2013 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 06: Supply Support Equipment									
-----									
Supply Support Equipment									
136	Materials Handling Equipment	A		15,204				15,204	U
137	Other Supply Support Equipment	A		6,330				6,330	U
138	First Destination Transportation	A		6,539				6,539	U
139	Special Purpose Supply Systems	A		34,804				34,804	U
Total Supply Support Equipment				62,877				62,877	
Budget Activity 07: Personnel & Command Support Equip									
-----									
Training Devices									
140	Training Support Equipment	A		25,444				25,444	U
Command Support Equipment									
141	Command Support Equipment	A		43,165				43,165	U
142	Education Support Equipment	A		2,251				2,251	U
143	Medical Support Equipment	A		3,148				3,148	U
146	Naval MIP Support Equipment	A		3,502				3,502	U
148	Operating Forces Support Equipment	A		15,696				15,696	U
149	C4ISR Equipment	A		4,344		3,000		7,344	U
150	Environmental Support Equipment	A		19,492				19,492	U
151	Physical Security Equipment	A		177,149		9,323		186,472	U

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Line No	Item Nomenclature	Ident Code	FY 2011 Actuals		FY 2012 Base		FY 2012 OCO		FY 2012 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
152	Enterprise Information Technology	A		163,223		143,022				143,022	U
999	Classified Programs			21,608		14,402				14,402	U
	Total Personnel & Command Support Equip			478,626		429,272		105,690		534,962	
Budget Activity 08: Spares and Repair Parts											
-----											
Spares And Repair Parts											
153	Spares And Repair Parts	A		219,680		208,384		473		208,857	U
	Total Spares and Repair Parts			219,680		208,384		473		208,857	
	Total Other Procurement, Navy			6,155,718		6,013,385		236,125		6,249,510	

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Line No	Item Nomenclature	Ident Code	FY 2013 Base		FY 2013 OCO		FY 2013 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
152	Enterprise Information Technology	A		183,995			183,995		U
999	Classified Programs			13,063			13,063		U
	Total Personnel & Command Support Equip			491,249		12,323	503,572		
Budget Activity 08: Spares and Repair Parts									
-----									
Spares And Repair Parts									
153	Spares And Repair Parts	A		250,718			250,718		U
	Total Spares and Repair Parts			250,718			250,718		
	Total Other Procurement, Navy			6,169,378		98,882	6,268,260		

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82	02	11	3057	Communications Items under \$5M.....	Volume 2 - 925
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87	02	14	3302	JCS Communications Equipment.....	Volume 2 - 1033
88	02	14	3303	Electrical Power Systems.....	Volume 2 - 1035
89	02	14	3368	Naval Shore Communications.....	Volume 2 - 1039
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92	02	17	3620	Coast Guard Equipment.....	Volume 2 - 1101
93	02	17	3630	Defense Rapid Innovation Program.....	Volume 2 - 1109
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97	03	03	4208	Expeditionary Airfields.....	Volume 3 - 17

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104	03	03	4255	LAMPS MK III Shipboard Equipment.....	Volume 3 - 91
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119	04	05	5431	Submarine ASW Support Equipment.....	Volume 4 - 157
120	04	05	5449	Surface ASW Support Equipment.....	Volume 4 - 167
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122	04	06	5509	Explosive Ordnance Disposal Equip.....	Volume 4 - 177
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AN/SLQ-32	2312	45	02	04.....	Volume 2 - 227
AN/SQQ-89 Surf ASW Cmbt Sys	2136	35	02	02.....	Volume 2 - 29
ASW Range Support Equipment	5455	121	04	05.....	Volume 4 - 173
Acft Launch & Recovery Equip	4216	99	03	03.....	Volume 3 - 33
Acft Rearming Equip	4214	98	03	03.....	Volume 3 - 25
Adv Tact Data Link Sys (ATDLS)	2614	52	02	07.....	Volume 2 - 427
Airborne Mine Countermeasures	4248	103	03	03.....	Volume 3 - 81
Allison 501K Gas Turbine	0120	2	01	01.....	Volume 1 - 15
American Forces Radio and TV Service (AFRTS)	2666	57	02	07.....	Volume 2 - 471
Amphibious Equipment	6033	132	05	01.....	Volume 5 - 49
Anti-ship Missile Decoy System	5530	124	04	07.....	Volume 4 - 191
Automatic Carrier Landing System	2832	62	02	09.....	Volume 2 - 575
Automatic Identification System (AIS)	2361	47	02	05.....	Volume 2 - 311
Autonomic Logistics Information System (ALIS)	4267	107	03	03.....	Volume 3 - 121
Aviation Life Support	4244	102	03	03.....	Volume 3 - 73
C4ISR Equipment	8120	149	07	02.....	Volume 5 - 165

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CANES Intell	2925	74	02	10.....	Volume 2 - 783
CG Modernization	0960	16	01	09.....	Volume 1 - 341
Chemical Warfare Detectors	0989	20	01	09.....	Volume 1 - 543
Coast Guard Equipment	3620	92	02	17.....	Volume 2 - 1101
Command Support Equipment	8106	141	07	02.....	Volume 5 - 101
Command and Control Switchboard	0925	7	01	09.....	Volume 1 - 171
Communications Items under \$5M	3057	82	02	11.....	Volume 2 - 925
Construction & Maint Equip	6024	129	05	01.....	Volume 5 - 17
Cooperative Engagement Capability	2606	49	02	07.....	Volume 2 - 381
Cryptologic Communications Equip	3501	91	02	16.....	Volume 2 - 1091
DCRS/DPL	4242	101	03	03.....	Volume 3 - 69
DDG Mod	0900	5	01	09.....	Volume 1 - 81
Deep Subm Sys Proj (DSSP) Equip	0955	15	01	09.....	Volume 1 - 337
Defense Rapid Innovation Program	3630	93	02	17.....	Volume 2 - 1109
Depl JT Cmd & Control (DJC2)	2804	68	02	10.....	Volume 2 - 673
Distributed Common Ground System-Navy (DCGS-N)	2914	71	02	10.....	Volume 2 - 721
Diving and Salvage Equipment	1130	24	01	11.....	Volume 1 - 577
EMI Control Instrumentation	2970	77	02	10.....	Volume 2 - 807
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Enterprise Information Technology	8161	152	07	02.....	Volume 5 - 193
Environmental Support Equipment	8126	150	07	02.....	Volume 5 - 169
Expeditionary Airfields	4208	97	03	03.....	Volume 3 - 17
Explosive Ordnance Disposal Equip	5509	122	04	06.....	Volume 4 - 177
Fire Fighting Equipment	6027	130	05	01.....	Volume 5 - 31
Firefighting Equipment	0910	6	01	09.....	Volume 1 - 147
First Destination Transportation	7066	138	06	01.....	Volume 5 - 81
Fixed Surveillance System	2225	42	02	03.....	Volume 2 - 181
Fleet Air Traffic Control Systems	2845	64	02	09.....	Volume 2 - 625
Gen Purp Elec Test Equip (GPETE)	2940	75	02	10.....	Volume 2 - 795
General Purpose Trucks	6007	128	05	01.....	Volume 5 - 11
Gun Fire Control Equipment	5209	109	04	02.....	Volume 4 - 5
ID Systems	2851	66	02	09.....	Volume 2 - 633
Info Systems Security Program (ISSP)	3415	90	02	15.....	Volume 2 - 1043
Integ Combat System Test Facility	2960	76	02	10.....	Volume 2 - 801
Intelligence Support Equipment	8115	147	07	02.....	Volume 5 - 151
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JCS Communications Equipment	3302	87	02	14.....	Volume 2 - 1033
LAMPS MK III Shipboard Equipment	4255	104	03	03.....	Volume 3 - 91
LCAC	0970	17	01	09.....	Volume 1 - 383
LCS Class Support Equipment	0944	11	01	09.....	Volume 1 - 261
LCS Common Mission Modules Equipment	1600	29	01	15.....	Volume 1 - 621
LCS MCM Mission Modules	1601	30	01	15.....	Volume 1 - 631
LCS SUW Mission Modules	1603	31	01	15.....	Volume 1 - 641
LM-2500 Gas Turbine	0110	1	01	01.....	Volume 1 - 1
LPD Class Support Equipment	0946	13	01	09.....	Volume 1 - 291
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Landing Systems	2846	65	02	09.....	Volume 2 - 629
MATCALs	2815	60	02	09.....	Volume 2 - 553
MDA	3051	81	02	11.....	Volume 2 - 919
Maritime Integrated Planning System - MIPS	5265	116	04	03.....	Volume 4 - 89
Maritime Intergrated Broadcast System	2900	69	02	10.....	Volume 2 - 681
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Minesweeping System Replacement	2622	54	02	07.....	Volume 2 - 445
NATO Seasparrow	5237	110	04	03.....	Volume 4 - 9
NAVSTAR GPS Receivers (Space)	2657	56	02	07.....	Volume 2 - 461
National Air Space System	2840	63	02	09.....	Volume 2 - 605
Naval Fires Control Sys	5112	108	04	02.....	Volume 4 - 1
Naval MIP Support Equipment	8114	146	07	02.....	Volume 5 - 147
Naval Mission Planning Systems	2876	67	02	09.....	Volume 2 - 669
Naval Shore Communications	3368	89	02	14.....	Volume 2 - 1039
Naval Tact Cmd Supt Sys (NTCSS)	2611	51	02	07.....	Volume 2 - 415
Navy Command and Control System (NCCS)	2618	53	02	07.....	Volume 2 - 431
Navy Multiband Terminal (NMT)	3216	86	02	13.....	Volume 2 - 1021
Nuclear Alterations	1480	28	01	15.....	Volume 1 - 619
Operating Forces IPE	1445	27	01	14.....	Volume 1 - 613
Operating Forces Supt Equip	8118	148	07	02.....	Volume 5 - 155
Other Aviation Support Equipment	4265	106	03	03.....	Volume 3 - 105
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Other Navigation Equipment	0670	3	01	06.....	Volume 1 - 21
Other Ships Training Equipment	1320	26	01	13.....	Volume 1 - 607
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Passenger Carrying Vehicles	6003	127	05	01.....	Volume 5 - 1
Physical Security Equipment	8128	151	07	02.....	Volume 5 - 179
Physical Security Vehicles	6075	135	05	01.....	Volume 5 - 63
Pollution Control Equipment	0935	8	01	09.....	Volume 1 - 179
Pollution Control Equipment	6058	133	05	01.....	Volume 5 - 55
Portable Electronic Maintenance Aids	4264	105	03	03.....	Volume 3 - 99
RADIAC	2920	73	02	10.....	Volume 2 - 771
RAM GMLS	5238	111	04	03.....	Volume 4 - 19
Radar Support	2040	33	02	01.....	Volume 2 - 1
Reactor Components	1020	23	01	10.....	Volume 1 - 575
Reactor Power Units	1010	22	01	10.....	Volume 1 - 573
SPQ-9B Radar	2026	34	02	02.....	Volume 2 - 9
SSN Acoustics	2147	36	02	02.....	Volume 2 - 59
SSN Combat Control Systems	5420	118	04	05.....	Volume 4 - 113
SURTASS	2237	43	02	03.....	Volume 2 - 183
Satellite Communications Systems	3215	85	02	13.....	Volume 2 - 997
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Ship Communications Automation	3050	80	02	11.....	Volume 2 - 857
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Shipboard Tactical Comms	3010	79	02	11.....	Volume 2 - 853
Sonar Switches and Transducers	2181	38	02	02.....	Volume 2 - 133
Sonobuoys - All Types	4048	95	03	01.....	Volume 3 - 1
Spares and Repair Parts	9020	153	08	01.....	Volume 5 - 215
Special Purpose Supply Systems	7069	139	06	01.....	Volume 5 - 83
Standard Boats	1210	25	01	12.....	Volume 1 - 593
Strategic Missile Systems Equip	5358	117	04	04.....	Volume 4 - 99
Strategic Platform Support Equip	0950	14	01	09.....	Volume 1 - 317
Strategic Platform Support Equip	2676	58	02	07.....	Volume 2 - 505
Sub Periscopes & Imaging Equip	0831	4	01	08.....	Volume 1 - 43
Submarine ASW Support Equipment	5431	119	04	05.....	Volume 4 - 157
Submarine Acoustic Warfare System	2210	40	02	03.....	Volume 2 - 145
Submarine Batteries	0945	12	01	09.....	Volume 1 - 269
Submarine Broadcast Support	3107	83	02	12.....	Volume 2 - 937
Submarine Communication Equipment	3130	84	02	12.....	Volume 2 - 953
Submarine Life Support System	0990	21	01	09.....	Volume 1 - 561
Submarine Support Equipment	0941	9	01	09.....	Volume 1 - 197
Submarine Supt Equip Prog	2560	48	02	06.....	Volume 2 - 315

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Surface ASW Support Equipment	5449	120	04	05.....	Volume 4 - 167
Surface Ship Torpedo Def (SSTD)	2213	41	02	03.....	Volume 2 - 155
Surface Training Device Mods	5660	125	04	07.....	Volume 4 - 213
Tactical Vehicles	6028	131	05	01.....	Volume 5 - 39
Tactical/Mobile C4I Systems	2906	70	02	10.....	Volume 2 - 701
Tomahawk Support Equipment	5253	114	04	03.....	Volume 4 - 65
Training Support Equipment	8081	140	07	01.....	Volume 5 - 87
Trusted Information System (TIS)	2608	50	02	07.....	Volume 2 - 411
Undersea Warfare Support Equipment	2176	37	02	02.....	Volume 2 - 119
Underwater EOD Programs	0977	18	01	09.....	Volume 1 - 387
Vertical Launch Systems	5260	115	04	03.....	Volume 4 - 69
Virginia Class Support Equipment	0942	10	01	09.....	Volume 1 - 219
Weapons Range Support Equipment	4204	96	03	03.....	Volume 3 - 9

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105	03	03	4264	Portable Electronic Maintenance Aids.....	Volume 3 - 99
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Airborne Mine Countermeasures	4248	103	03	03.....	Volume 3 - 81
Autonomic Logistics Information System (ALIS)	4267	107	03	03.....	Volume 3 - 121
Aviation Life Support	4244	102	03	03.....	Volume 3 - 73
DCRS/DPL	4242	101	03	03.....	Volume 3 - 69
Expeditionary Airfields	4208	97	03	03.....	Volume 3 - 17
LAMPS MK III Shipboard Equipment	4255	104	03	03.....	Volume 3 - 91
Meteorological Equipment	4226	100	03	03.....	Volume 3 - 57
Other Aviation Support Equipment	4265	106	03	03.....	Volume 3 - 105
Portable Electronic Maintenance Aids	4264	105	03	03.....	Volume 3 - 99
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Weapons Range Support Equipment	4204	96	03	03.....	Volume 3 - 9

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**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 1 : Sonobuoys

**P-1 Line Item Nomenclature:**  
4048 - Sonobuoys - All Types

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	708.043	83.391	94.814	104.677	-	104.677	163.755	174.564	172.401	175.369	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	708.043	83.391	94.814	104.677	-	104.677	163.755	174.564	172.401	175.369	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	708.043	83.391	94.814	104.677	-	104.677	163.755	174.564	172.401	175.369	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The AN/SSQ-36, Bathythermograph (BT) is a bathythermograph sonobuoy used to provide a vertical temperature profile of the ocean with respect to depth. The data is transmitted to aircraft to assist in the selection of hydrophone depths and tactics for localizing and tracking submarines and long-range forecasts of acoustic conditions in the ocean.

The AN/SSQ-53, Directional Low Frequency Analyze and Record (DIFAR) is a passive directional sonobuoy which provides acoustic target localization.

The AN/SSQ-62, Directional Command Active Sonobuoy System (DICASS) is an active acoustic directional sonobuoy that provides target bearing and range information.

The AN/SSQ-101, Air Deployable Active Receiver (ADAR) is a commandable, passive acoustic sonobuoy with a horizontal planar array. It is part of the family of multi-static active sensor systems.

The AN/SSQ-125, Multistatic Coherent Source is a coherent active search sensor. It is part of the family of multi-static active sensor systems.

The MK84 Signal, Underwater Sound (SUS) device is an expendable, non-explosive, electro-acoustic device which transmits acoustic tones. The MK84 SUS is used for training and exercise signaling to submarines.

Hardware funds may be realigned to support necessary Engineering Investigations and production Engineering Change Proposals.

Note: The AN/SSQ-110, Multistatic Non-Coherent Source is an active source buoy to be used in conjunction with the family of multi-static active sensor systems. The AN/SSQ-110s are no longer being procured and existing AN/SSQ-110s are now being retrofitted.

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 1 : Sonobuoys

**P-1 Line Item Nomenclature:**  
4048 - Sonobuoys - All Types

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

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Sonobuoys, All Types (See enclosed P-40A)	P40A, P5A, P21				708.043			83.391			94.814			104.677			0.000			104.677
<b>Total Gross/Weapon System Cost</b>				<b>708.043</b>			<b>83.391</b>			<b>94.814</b>			<b>104.677</b>			<b>-</b>			<b>104.677</b>	

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**  
Non-Nuclear Ordnance Requirement (NNOR).

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 1 **P-1 Line Item Nomenclature:** 4048 - Sonobuoys - All Types **Aggregated Item Name:** Sonobuoys, All Types

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) Hardware</b>																			
† 1.1) AN/SSQ-36 (BT)	A	-	-	-	587.00	3,211	1.885	602.35	3,405	2.051	742.27	1,552	1.152	-	-	-	742.27	1,552	1.152
† 1.2) AN/SSQ-53 (DIFAR)	A	-	-	-	734.00	51,054	37.474	750.00	49,749	37.312	885.89	65,508	58.033	-	-	-	885.89	65,508	58.033
† 1.3) AN/SSQ-62 (DICASS)	A	-	-	-	1,519.00	10,286	15.624	1,570.93	10,229	16.069	1,900.97	5,665	10.769	-	-	-	1,900.97	5,665	10.769
† 1.4) AN/SSQ-101 (ADAR)	A	-	-	-	5,361.00	3,133	16.796	6,809.00	2,060	14.027	7,072.10	1,803	12.751	-	-	-	7,072.10	1,803	12.751
† 1.5) AN/SSQ-125 (Multistatic Coherent Source)	B	-	-	-	-	-	-	4,602.00	2,575	11.850	7,256.91	1,374	9.971	-	-	-	7,256.91	1,374	9.971
1.6) SUS MK84	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) Hardware</i>				<i>0.000</i>			<i>71.779</i>			<i>81.309</i>			<i>92.676</i>			<i>0.000</i>			<i>92.676</i>
<b>2) Production Engineering</b>																			
2.1) Common	A	-	-	-	-	-	5.095	-	-	6.840	-	-	4.941	-	-	-	-	-	4.941
2.2) Multistatic*	A	-	-	-	-	-	1.521	-	-	1.695	-	-	1.647	-	-	-	-	-	1.647
2.3) Other	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) Production Engineering</i>				<i>0.000</i>			<i>6.616</i>			<i>8.535</i>			<i>6.588</i>			<i>0.000</i>			<i>6.588</i>
<b>3) Acceptance Testing</b>																			
3.1) Common	A	-	-	-	-	-	3.846	-	-	3.374	-	-	4.060	-	-	-	-	-	4.060
3.2) Multistatic	A	-	-	-	-	-	1.150	-	-	1.596	-	-	1.353	-	-	-	-	-	1.353
3.3) Other	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) Acceptance Testing</i>				<i>0.000</i>			<i>4.996</i>			<i>4.970</i>			<i>5.413</i>			<i>0.000</i>			<i>5.413</i>
<b>4) Prior Years</b>																			
4.1) Prior Years	A	-	-	708.043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) Prior Years</i>				<i>708.043</i>			<i>0.000</i>			<i>0.000</i>			<i>0.000</i>			<i>0.000</i>			<i>0.000</i>
<b>Total</b>				<b>708.043</b>			<b>83.391</b>			<b>94.814</b>			<b>104.677</b>			<b>0.000</b>			<b>104.677</b>

**Remarks:**

[Hardware] AN/SSQ-53 unit cost increases in FY13 due to the incorporation of the NATO digital uplink and GPS.

[Production Engineering] \*The costs for retrofitting existing AN/SSQ-110s are included in the Production Engineering (Multistatic) line. The ID CD for AN/SSQ-125s is B.

[Acceptance Testing] Acceptance testing costs have increased due to the transition from NC-12 aircraft to S-3 aircraft for Lot Acceptance Test air support in FY13. The ID CD for AN/SSQ-125s is B.

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N / BA 3 / BSA 1

**P-1 Line Item Nomenclature:**  
4048 - Sonobuoys - All Types

**Aggregated Item Name:**  
Sonobuoys, All Types

[Prior Years] Sonobuoys under prior subheads are not included in Prior Years amount.  
Totals may not add due to rounding.

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 1 **P-1 Line Item Nomenclature:** 4048 - Sonobuoys - All Types **Aggregated Item Name:** Sonobuoys, All Types

Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) Hardware</b>												
1.1) AN/SSQ-36 (BT)		2011	ERAPSCO / Columbia City IN	C / FFP	NAWCAD	Apr 2011	Jul 2012	3,211	587.00	N	Feb 2012	Apr 2010
1.1) AN/SSQ-36 (BT)		2012	ERAPSCO / Columbia City IN	C / FFP	NAWCAD	Nov 2011	Feb 2013	3,405	602.35	N	Nov 2012	Apr 2010
1.1) AN/SSQ-36 (BT)		2013	TBD / TBD	C / FFP	NAWCAD	Feb 2013	May 2014	1,552	742.27	N	Dec 2013	Jun 2011
†1.2) AN/SSQ-53 (DIFAR)		2011	ERAPSCO / Columbia City IN	C / FFP	NAWCAD	Apr 2011	Jul 2012	51,054	734.00	N	Feb 2012	Apr 2010
†1.2) AN/SSQ-53 (DIFAR)		2012	TBD / TBD	C / FFP	NAWCAD	Feb 2012	May 2013	49,749	750.00	N	Nov 2012	Apr 2010
†1.2) AN/SSQ-53 (DIFAR)		2013	TBD / TBD	C / FFP	NAWCAD	Feb 2013	May 2014	65,508	885.89	N	Dec 2013	Jun 2011
†1.3) AN/SSQ-62 (DICASS)		2011	ERAPSCO / Columbia City IN	C / FFP	NAWCAD	Apr 2011	Jul 2012	10,286	1,519.00	N	Feb 2012	Apr 2010
†1.3) AN/SSQ-62 (DICASS)		2012	ERAPSCO / Columbia City IN	C / FFP	NAWCAD	Nov 2011	Feb 2013	10,229	1,570.93	N	Nov 2012	Apr 2010
†1.3) AN/SSQ-62 (DICASS)		2013	TBD / TBD	C / FFP	NAWCAD	Feb 2013	May 2014	5,665	1,900.97	N	Dec 2013	Jun 2011
†1.4) AN/SSQ-101 (ADAR)		2011	ERAPSCO / Columbia City IN	SS / FFP	NAWCAD	Nov 2010	Feb 2012	3,133	5,361.00	Y		Oct 2009
†1.4) AN/SSQ-101 (ADAR)		2012	ERAPSCO / Columbia City IN	SS / FFP	NAWCAD	Mar 2012	Jun 2013	2,060	6,809.00	Y		Feb 2011
†1.4) AN/SSQ-101 (ADAR)		2013	ERAPSCO / Columbia City IN	SS / FFP	NAWCAD	Feb 2013	May 2014	1,803	7,072.10	N	Dec 2013	Jun 2011
†1.5) AN/SSQ-125 (Multistatic Coherent Source)		2012	ERAPSCO / Columbia City IN	SS / FFP	NAWCAD	Mar 2012	Jun 2013	2,575	4,602.00	Y		Feb 2011
†1.5) AN/SSQ-125 (Multistatic Coherent Source)		2013	ERAPSCO / Columbia City IN	SS / FFP	NAWCAD	Feb 2013	May 2014	1,374	7,256.91	N	Dec 2013	Jun 2011

**Remarks:**

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**Exhibit P-21, Budget Production Schedule: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 1 **P-1 Line Item Nomenclature:** 4048 - Sonobuoys - All Types **Aggregated Item Name:** Sonobuoys, All Types

COST ELEMENTS Units in Each						Fiscal Year 2012													Fiscal Year 2013													
O C O	MFR Ref #	FY	SERVICE <sup>±</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2012													Calendar Year 2013												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
1) Hardware																																
1.2) AN/SSQ-53 (DIFAR)																																
	1	2011	NAVY (1)	51054	0	51054	-	-	-	-	-	-	-	-	-	5100	5300	5800	6200	6200	6200	5900	5300	5054								
	2	2012	NAVY	49749	0	49749	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5100	5500	5700	5700	5700	22049
	2	2013	NAVY	65508	0	65508	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	65508
1.3) AN/SSQ-62 (DICASS)																																
	3	2011	NAVY (2)	10286	0	10286	-	-	-	-	-	-	-	-	1100	1100	1100	1200	1200	1200	1200	1100	1086									
	3	2012	NAVY	10229	0	10229	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	900	1200	1200	1200	1200	1200	1200	1200	1200	929	
	4	2013	NAVY	5665	0	5665	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	5665
1.4) AN/SSQ-101 (ADAR)																																
	5	2011	NAVY (3)	3133	0	3133	-	-	-	-	100	300	300	500	500	500	500	300	133													
	5	2012	NAVY	2060	0	2060	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	100	200	300	300	1160		
	5	2013	NAVY	1803	0	1803	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	1803	
1.5) AN/SSQ-125 (Multistatic Coherent Source)																																
	6	2012	NAVY (4)	2575	0	2575	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	100	200	300	400	1575			
	6	2013	NAVY	1374	0	1374	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	1374	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		



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**Exhibit P-21, Budget Production Schedule: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 1 **P-1 Line Item Nomenclature:** 4048 - Sonobuoys - All Types **Aggregated Item Name:** Sonobuoys, All Types

COST ELEMENTS Units in Each						Fiscal Year 2014													Fiscal Year 2015												
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2014													Calendar Year 2015											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
1) Hardware																															
1.2) AN/SSQ-53 (DIFAR)																															
	1	2011	NAVY (1)	51054	51054	0																									
	2	2012	NAVY	49749	27700	22049	5700	5700	5500	5149																					
	2	2013	NAVY	65508	0	65508	-	-	-	-	-	-	-	7100	7200	7300	7300	7400	7400	7300	7300	7208									
1.3) AN/SSQ-62 (DICASS)																															
	3	2011	NAVY (2)	10286	10286	0																									
	3	2012	NAVY	10229	9300	929	929																								
	4	2013	NAVY	5665	0	5665	-	-	-	-	-	-	-	600	600	600	700	700	700	600	600	565									
1.4) AN/SSQ-101 (ADAR)																															
	5	2011	NAVY (3)	3133	3133	0																									
	5	2012	NAVY	2060	900	1160	300	300	300	200	60																				
	5	2013	NAVY	1803	0	1803	-	-	-	-	-	-	-	200	200	200	200	300	200	200	200	103									
1.5) AN/SSQ-125 (Multistatic Coherent Source)																															
	6	2012	NAVY (4)	2575	1000	1575	400	400	400	300	75																				
	6	2013	NAVY	1374	0	1374	-	-	-	-	-	-	-	100	100	200	200	200	200	200	100	74									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 1	<b>P-1 Line Item Nomenclature:</b> 4048 - Sonobuoys - All Types	<b>Aggregated Item Name:</b> Sonobuoys, All Types

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	ERAPSCO - Columbia City IN	45	62	135	12	4	15	19	12	4	15	19
2	TBD - TBD	45	62	135	12	4	15	19	12	4	15	19
3	ERAPSCO - Columbia City IN	10	26	67	12	4	15	19	12	4	15	19
4	TBD - TBD	10	26	67	12	4	15	19	12	4	15	19
5	ERAPSCO - Columbia City IN	2	8	11	12	4	15	19	12	4	15	19
6	ERAPSCO - Columbia City IN	2	7	14	12	4	15	19	12	4	15	19

**Remarks:**  
 ‡ Delivery rows marked with the ♦ symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.  
 (1) If mobilization is for multiple buoy types, then the maximum quantity should be reduced by 30%-50%.  
 (2) If mobilization is for multiple buoy types then the maximum quantity should be reduced by 30%-50%.  
 (3) If mobilization is for multiple buoy types then the maximum quantity should be reduced by 30%-50%.  
 (4) If mobilization is for multiple buoy types then the maximum quantity should be reduced by 30%-50%.

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**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Navy** **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment	<b>P-1 Line Item Nomenclature:</b> 4204 - Weapons Range Support Equipment
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ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:						Other Related Program Elements:					
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	368.385	59.376	50.197	70.753	-	70.753	57.521	57.701	53.573	54.452	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	368.385	59.376	50.197	70.753	-	70.753	57.521	57.701	53.573	54.452	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	368.385	59.376	50.197	70.753	-	70.753	57.521	57.701	53.573	54.452	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	3.802	3.715	3.046	-	3.046	2.865	2.946	2.681	3.059	Continuing	Continuing
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This budget line item provides the resources to implement the Navy Fleet Training Range (FTR) Instrumentation Program Plan. These FTRs provide the primary means of fleet combat readiness training. The plan addresses the following major procurement areas: Electronic Warfare (EW) simulators, Systems Replacement and Modernization (SRAM), and generic systems such as range computer systems, simulation, surveillance systems, Moving Land Targets (MLT), Test and Training Enabling Architecture (TENA), Targets/ Smart Targets, Tactical Combat Training System (TCTS), Undersea Warfare Training Range/ Pacific Fleet Portable ASW Range, and Mine Countermeasure (MCM) training equipment. The integral parts of these major range programs include but are not limited to the following: voice communications, weapons scoring systems, display consoles, radars, tracking subsystems, control/ computation subsystems, display/ debriefing subsystems, processors, HF/ VHF/ UHF receivers, transmitters/ transceivers, multiplexers, intercom circuits, encoding devices, frequency interface control systems, and other specialized equipment.

[P40A / SRAM - Systems Replacement and Modernization]: The SRAM program provides for the procurement of numerous non-recurring range equipment replacement and modernization efforts that are needed at all Navy training ranges. SRAM procurements replace and modernize economically unmaintainable systems and equipment in order to increase range efficiency. Funding for installation of minor equipment is required in all years for all ranges. Some procurements include antenna replacement, datalink replacement, electrical generators, and range safety lighting equipment.

[P40A / OS - Ocean Systems]: Funds the procurement and upgrade of fixed and portable underwater training ranges. The underwater ranges are used to provide individual and unit level training for basic antisubmarine warfare (ASW) skills. Large exercises such as Composite Training Unit Exercises (COMTUEX), Fleet Exercises (FLEETEX), and Joint Task Force Exercises (JTFX) are conducted in the vicinity of the fixed underwater training ranges. The Southern California Off Shore Range (SCORE) in San Diego, California has reached the end of its design life, and is beginning to fail, critically impacting this training. SCORE refurbishment efforts were completed in FY11. The Portable Underwater Training Range (PUTR) will support ASW training for Forward Deployed Naval Forces (FDNF) in the Pacific. Efforts on the previous PUTR system were completed in FY10. A second system for Pacific use will be procured in FY13. Items procured under this cost element include hydrophones, undersea cable, and shore system electronics. The Undersea Warfare Training Range (USWTR) will provide realistic shallow water ASW training against the diesel submarine threat. USWTR will provide approximately 500 nmi2 of operational range area on each coast. In 2010, the Navy reprioritized the USWTR program, with the East Coast range to be procured before the West Coast range. Per Congressional direction, East Coast USWTR has been broken out separately under cost code SC161. West Coast USWTR is planned for procurement under this cost code outside the current FYDP.

[P40A / OS - BSURE Replacement]: The Barking Sands Underwater Range (BSURE) at PMRF has reached its intended design life and requires refurbishment and modernization to ensure that it is capable of meeting fleet antisubmarine warfare training requirements in the future. FY06 and FY07 Congressional Adds provided funding for a portion of the required necessary components and elements associated with the modernization. Refurbishment includes replacement of both in-water and shore side hardware and modernization of software systems. Appropriated funds beginning in FY07 funded the remainder of the requirement to extend the operational life of the range. Refurbishment efforts were completed in FY11.

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment		<b>P-1 Line Item Nomenclature:</b> 4204 - Weapons Range Support Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
<p>[P40A / OS - East Coast USWTR]: The purpose of the East Coast USWTR is to establish a shallow-water training range capability on the East Coast. The primary USWTR mission will be to support Fleet readiness through training and tactical development of submarine, surface ship, and aircraft undersea warfare (USW), surface warfare (SUW), and mine warfare (MIW). Secondary missions will include training in shallow water, regional conflict operations involving the naval special warfare (NSW), electronic warfare (EW), and amphibious warfare (AMW) mission/ operational capability areas. Additionally, joint mission areas that may be supported include joint littoral warfare and joint surveillance and warning. Previously subsumed within Ocean Systems, East Coast USWTR has been broken out separately in accordance with the FY 2007 Defense Appropriations Act. Items procured under this cost element include hydrophones, undersea cable, and shore system electronics for East Coast USWTR. End result is a single in-water training range.</p> <p>[P40A / TCTS - Transportable Ground Subsystem]: The Tactical Combat Training System (TCTS) will procure fixed range instrumentation equipment for both shore-based (aircrew training) and deployable (ship/sub/aircrew training) applications. TCTS instrumentation will transmit exercise scenarios; simulate/stimulate all exercise participants sensors/weapons with the exercise scenario; track all exercise participants and events, e.g., weapons engagements; and provide accurate, realistic, and timely feedback. TCTS is building on technology developed for existing tactical training range systems. The system will be interoperable with the USAF P5 CTS system. The TCTS consists of airborne instrumentation called Participant Subsystems and Ground Subsystems. Increment 1 systems have been procured and fielded. Beginning in FY 2014, procurement begins for Increment 2 systems with encrypted communication capability.</p> <p>[P40A / TCTS - Portable Ground Subsystem]: The Tactical Combat Training System (TCTS) will procure portable range instrumentation equipment for both shore-based (aircrew training) and deployable (ship/sub/aircrew training) applications. TCTS instrumentation will transmit exercise scenarios; simulate/stimulate all exercise participants sensors/weapons with the exercise scenario; track all exercise participants and events, e.g., weapons engagements; and provide accurate, realistic, and timely feedback. TCTS is building on technology developed for existing tactical training range systems. The system will be interoperable with the USAF P5 CTS system. The TCTS consists of airborne instrumentation called Participant Subsystems and Ground Subsystems. Increment 1 systems have been procured and fielded. Beginning in FY 2014, procurement begins for Increment 2 systems with encrypted communication capability.</p> <p>[P40A / TCTS - Remote Range Unit]: The Tactical Combat Training System (TCTS) will procure fixed, transportable, and mobile range instrumentation equipment for both shore-based (aircrew training) and deployable (ship/sub/aircrew training) applications. TCTS instrumentation will transmit exercise scenarios; simulate/stimulate all exercise participants sensors/weapons with the exercise scenario; track all exercise participants and events, e.g., weapons engagements; and provide accurate, realistic, and timely feedback. TCTS is building on technology developed for existing tactical training range systems. The system will be interoperable with the USAF P5 CTS system. The TCTS consists of airborne instrumentation called Participant Subsystems and Ground Subsystems. Increment 1 systems have been procured and fielded. Beginning in FY 2014, procurement begins for Increment 2 systems with encrypted communication capability.</p> <p>[P40A / EW - Targets/ Smart Targets]: Targets represent a variety of mobile and stationary targets, shapes, and visual cues that are required to support aviation and surface training of the Naval Forces. Smart Targets represent Electronic Warfare simulators and legacy system upgrades that present range participants with systems that provide capabilities such as reactivity, mobility, realistic radar cross-section, infrared signature, and realistic threat fidelity.</p> <p>[P40A / EW - Threat Presentation]: Threat Presentation includes all the necessary components and elements associated with presenting friendly training event participants with an opposing force (OPFOR) operating environment that replicates the expected enemy order of battle. The capability of a range to recreate any Electronic Combat electronic order of battle (EOB) requires a range to simulate or emulate basic elements of Electronic Combat such as search, acquisition and tracking radars, anti-aircraft artillery (AAA) systems, surface-to-air missile (SAM) systems, infrared (IR) systems, jammers, coastal threats, airborne simulators, and information warfare/ command and control systems. Individual pieces procured vary from year to year.</p> <p>[P40A / MLT - Moving Land Targets]: The Moving Land Target (MLT) will provide Naval Forces with a fast and highly maneuverable surrogate for the threat vehicles currently encountered in combat operations. The MLT will operate primarily on unpaved roads, support Close Air Support (CAS) and Time-Sensitive Targeting (TST) training, and enable Joint Terminal Air Controllers (JTACs) and aircrews to identify and engage moving targets not normally associated with traditional enemy forces. This line was previously titled FRP Targets.</p> <p>[P40A / RSS - Laser Scoring System]: Laser training system instrumentation is used to provide a ground-based source of laser energy for weapon terminal guidance (ground designation) or to provide an independent confirmation of the laser spot position for airborne or ground designation. These funds will be used for major service life extensions, technology refreshment, and system replacement.</p> <p>[P40A / MCM - Mine Shapes]: Mine Shapes are used to support Norfolk-based helo squadron aviation Mine Countermeasure (MCM) training at the Virginia Capes (VACAPES) range operating area.</p>		

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4204 - Weapons Range Support Equipment

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

[P40A / CONG - FY11 Training Range Upgrades]: FY11 Congressional funds provided to support acquisition and deployment of Navy Fleet Training Range instrumentation. Training range instrumentation includes but is not limited to: tracking instrumentation (both fixed-site and movable), instrumentation capabilities to exchange and process data with the combat systems, instrumentation designed to provide a realistic electronic warfare environment, equipment for impact scoring of practice weapons, and support instrumentation to include communications, surveillance, and data transmission systems necessary for the effective operation of the training ranges.

[P40A / CONG - FY 12 Training Range Upgrades]: FY12 Congressional funds provided to support acquisition and deployment of Navy Fleet Training Range instrumentation. Training range instrumentation includes but is not limited to: tracking instrumentation (both fixed-site and movable), instrumentation capabilities to exchange and process data with the combat systems, instrumentation designed to provide a realistic electronic warfare environment, equipment for impact scoring of practice weapons, and support instrumentation to include communications, surveillance, and data transmission systems necessary for the effective operation of the training ranges.

[P40A / Relocatable Tension Fabric Aircraft Shelters]: Relocatable Tension Fabric Aircraft Shelters: Procure and install temporary aircraft shelters to prevent accelerated degradation of aircraft components.

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Weapons Range Support Equipment (See enclosed P-40A)	P40A, P5A				368.385			59.376			50.197			70.753			0.000			70.753
<b>Total Gross/Weapon System Cost</b>					<b>368.385</b>			<b>59.376</b>			<b>50.197</b>			<b>70.753</b>			-			<b>70.753</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**  
Operational forces of the Navy's air, surface, and subsurface units are being equipped with the latest complex and sophisticated weapon systems to achieve and maintain high standards of fleet readiness. The FTRs must be furnished with training equipment capable of simulating, tracking, displaying, and debriefing the latest combat environments (e.g. electronic warfare). This equipment provides the Navy with the capability to: conduct safe fleet training exercises; achieve a high state of readiness; objectively evaluate training effectiveness as well as the strategy and tactics employed; evaluate the performance of equipment; and measure reliability and accuracy of operational systems.

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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy														Date: February 2012					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3				P-1 Line Item Nomenclature: 4204 - Weapons Range Support Equipment										Aggregated Item Name: Weapons Range Support Equipment					
Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) Hardware</b>																			
1.1) SRAM - Systems Replacement and Modernization	A	-	-	112.060	-	-	8.869	-	-	9.551	-	-	8.954	-	-	-	-	-	8.954
1.2) OS - Ocean Systems	A	-	-	53.070	-	-	10.300	-	-	-	-	-	4.469	-	-	-	-	-	4.469
1.3) OS - BSURE Replacement	A	-	-	23.978	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	-
1.4) OS - East Coast USWTR	A	-	-	23.098	-	-	-	-	-	5.741	-	-	13.328	-	-	-	-	-	13.328
1.5) TCTS - Transportable Ground Subsystem <sup>(1)</sup>	A	-	-	0.761	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) TCTS - Portable Ground Subsystem	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.7) TCTS - Remote Range Unit	A	-	-	-	-	-	-	-	-	-	80,000.00	3	0.240	-	-	-	80,000.00	3	0.240
† 1.8) EW - Targets/ Smart Targets	A	-	-	8.246	242,000.00	1	0.242	246,000.00	1	0.246	-	-	-	-	-	-	-	-	-
1.9) EW - Threat Presentation	A	-	-	35.312	-	-	0.683	-	-	7.310	-	-	15.704	-	-	-	-	-	15.704
† 1.10) MLT - Moving Land Targets	A	-	-	6.930	108,000.00	16	1.728	-	-	-	64,040.00	28	1.793	-	-	-	64,040.00	28	1.793
† 1.11) RSS - Laser Scoring System	A	-	-	1.656	428,570.00	7	3.000	-	-	-	-	-	-	-	-	-	-	-	-
1.12) MCM - Mine Shapes	A	-	-	-	-	-	-	-	-	-	-	-	0.508	-	-	-	-	-	0.508
1.13) CONG - FY11 Training Range Upgrades	A	-	-	-	-	-	20.000	-	-	-	-	-	-	-	-	-	-	-	-
1.14) CONG - FY 12 Training Range Upgrades	A	-	-	-	-	-	-	-	-	12.500	-	-	-	-	-	-	-	-	-
1.15) Relocatable Tension Fabric Aircraft Shelters	A	-	-	-	-	-	-	-	-	-	-	-	8.000	-	-	-	-	-	8.000
<b>Subtotal 1) Hardware</b>				265.111			45.022			35.348			52.996			0.000			52.996
<b>2) Integrated Logistics Support</b>																			

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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy															Date: February 2012				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3					P-1 Line Item Nomenclature: 4204 - Weapons Range Support Equipment										Aggregated Item Name: Weapons Range Support Equipment				
Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1) SRAM	A	-	-	0.276	-	-	0.284	-	-	0.230	-	-	0.285	-	-	-	-	-	0.285
2.2) Ocean Systems	A	-	-	0.678	-	-	0.287	-	-	0.391	-	-	0.688	-	-	-	-	-	0.688
2.3) TCTS	A	-	-	0.617	-	-	0.365	-	-	0.180	-	-	0.470	-	-	-	-	-	0.470
2.4) EW	A	-	-	0.191	-	-	0.250	-	-	0.142	-	-	0.150	-	-	-	-	-	0.150
2.5) Prior Years	A	-	-	9.317	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) Integrated Logistics Support</i>				11.079			1.186			0.943			1.593			0.000			1.593
<b>3) Production Support</b>																			
3.1) Ocean Systems	A	-	-	-	-	-	1.075	-	-	0.803	-	-	1.208	-	-	-	-	-	1.208
3.2) TCTS	A	-	-	-	-	-	0.235	-	-	0.235	-	-	0.240	-	-	-	-	-	0.240
3.3) EW	A	-	-	-	-	-	0.167	-	-	0.170	-	-	0.175	-	-	-	-	-	0.175
<i>Subtotal 3) Production Support</i>				0.000			1.477			1.208			1.623			0.000			1.623
<b>4) Production Engineering</b>																			
4.1) SRAM	A	-	-	0.927	-	-	0.982	-	-	0.749	-	-	0.857	-	-	-	-	-	0.857
4.2) Ocean Systems	A	-	-	6.069	-	-	2.797	-	-	4.909	-	-	4.515	-	-	-	-	-	4.515
4.3) TCTS	A	-	-	3.034	-	-	3.256	-	-	2.982	-	-	2.830	-	-	-	-	-	2.830
4.4) EW	A	-	-	2.114	-	-	2.587	-	-	1.997	-	-	2.243	-	-	-	-	-	2.243
4.5) MLT	A	-	-	0.043	-	-	0.235	-	-	0.015	-	-	0.185	-	-	-	-	-	0.185
4.6) RSS	A	-	-	0.456	-	-	0.364	-	-	-	-	-	-	-	-	-	-	-	-
4.7) Prior Years	A	-	-	58.652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) Production Engineering</i>				71.295			10.221			10.652			10.630			0.000			10.630
<b>5) Acceptance Testing</b>																			
5.1) SRAM	A	-	-	0.201	-	-	0.207	-	-	0.207	-	-	0.210	-	-	-	-	-	0.210
5.2) Ocean Systems	A	-	-	0.337	-	-	-	-	-	0.080	-	-	0.789	-	-	-	-	-	0.789
5.3) TCTS	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.4) EW	A	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.5) Prior Years	A	-	-	3.543	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) Acceptance Testing</i>				4.281			0.207			0.287			0.999			0.000			0.999
<b>6) Non-FMP Installation</b>																			
6.1) SRAM	A	-	-	0.238	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4204 - Weapons Range Support Equipment **Aggregated Item Name:** Weapons Range Support Equipment

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
6.2) TCTS	A	-	-	0.926	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3) Prior Years	A	-	-	11.365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) Non-FMP Installation</i>				12.529			0.000			0.000			0.000			0.000			0.000
<b>7) FMP Installation</b>																			
7.1) TCTS	A	-	-	-	-	-	0.863	-	-	1.259	-	-	1.150	-	-	-	-	-	1.150
<i>Subtotal 7) FMP Installation</i>				0.000			0.863			1.259			1.150			0.000			1.150
<b>8) Non-Recurring</b>																			
8.1) Ocean Systems	A	-	-	4.090	-	-	-	-	-	-	-	-	1.462	-	-	-	-	-	1.462
8.2) TCTS	A	-	-	-	-	-	0.400	-	-	0.500	-	-	0.300	-	-	-	-	-	0.300
<i>Subtotal 8) Non-Recurring</i>				4.090			0.400			0.500			1.762			0.000			1.762
<b>Total</b>				<b>368.385</b>			<b>59.376</b>			<b>50.197</b>			<b>70.753</b>			<b>0.000</b>			<b>70.753</b>

**Remarks:**

(1) TCTS Hardware procurements beginning in FY 2014 include an encryption capability not previously procured



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Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Navy										Date: February 2012		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3				P-1 Line Item Nomenclature: 4204 - Weapons Range Support Equipment					Aggregated Item Name: Weapons Range Support Equipment			
Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) Hardware</b>												
1.7) TCTS - Remote Range Unit		2013	Cubic Defense Applications / San Diego, CA	C / FFP	AAC/WMR Eglin AFB, FL	Jan 2013	Sep 2014	3	80,000.00	Y		Dec 2002
1.8) EW - Targets/ Smart Targets		2011	Argon ST / Amarillo, TX	C / FFP	NAWCWD, Pt. Mugu, CA	Apr 2011	Apr 2012	1	242,000.00	Y		Jan 2009
1.8) EW - Targets/ Smart Targets		2012	Argon ST / Amarillo, TX	C / FFP	NAWCWD, Pt. Mugu, CA	Apr 2012	Apr 2013	1	246,000.00	Y		Jan 2009
1.10) MLT - Moving Land Targets		2011	Kairos / Sandy, UT	C / FFP	NAVAIR, Patuxent River, MD	Apr 2011	Aug 2011	16	108,000.00	Y		May 2010
1.10) MLT - Moving Land Targets		2013	Kairos / Sandy, UT	C / FFP	NAVAIR, Patuxent River, MD	Apr 2013	Aug 2013	28	64,040.00	Y		May 2010
1.11) RSS - Laser Scoring System		2011	NAWCWD Pt. Mugu / NAWCWD Pt. Mugu, CA	PO	N/A	Jun 2011	Jun 2012	7	428,570.00	Y		Oct 2010
<b>Remarks:</b>												

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**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
 4208 - Expeditionary Airfields

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	181.866	12.983	55.561	8.678	58.200	66.878	8.821	8.984	9.138	9.297	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	181.866	12.983	55.561	8.678	58.200	66.878	8.821	8.984	9.138	9.297	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	181.866	12.983	55.561	8.678	58.200	66.878	8.821	8.984	9.138	9.297	Continuing	Continuing

*(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:**

Expeditionary Airfields (EAF): This program provides for procurement of aircraft recovery equipment, landing mat and accessories, airfield lighting and Visual Landing Aids for Naval Aviation EAF. EAF recovery equipment consists of the M31 arresting gear and its accessories. This equipment is used to stop aircraft in less than 1000 ft. EAF landing mats and accessories are used to construct airfields of varying configurations such as, 5000+ ft conventional airport runways and taxiways, Forward Arming and Refueling Points (FARPs), Forward Operating Bases (FOBs), Landing Zones (LZs) and Helo Pads. EAF Lighting equipment augments the many types of EAFs with lighting of the runways, taxiways, LZs, FARPs, FOBs and Helo pads. Much of the EAF Lighting utilizes Infra Red Lighting for use with Night Vision Devices (NVD) for night operations by all Type / Model / Series aircraft. Fresnel Lens Optical Landing Systems and Precision Approach Path Indicator systems are used to guide aircraft to the proper landing or arresting gear area of the EAF. This core funding level directly supports the procurement and fielding of operational EAF systems in the three active duty Marine Aircraft Wings (MAW) and one Reserve MAW, testing and training installations, and provides assets for use by the Marine Expeditionary Forces during contingency operations.

Basis for 2011, Budget Request: The FY2011 baseline budget request consists of procurement of various composites of surfacing equipment, such as AM-2 matting and lightweight matting. The quantities for matting and lighting vary depending on quantities for each type of matting and service change requirements each year. The equipment, accessories, and service changes are procured and fielded with these funds. Equipment procurements are based on inventory shortfalls, product improvements to fill or correct known deficiencies, modernizing EAF equipment to improve maintainability, reliability, and safety-of-flight, and to keep pace with new aircraft and aircraft systems.

Basis for FY2011 Overseas Contingency Operations (OCO): Equipment procurements will facilitate forward deployment of EAF systems aboard Rapid Deployment Force/Maritime Prepositioning Force ships which is an operational requirement under the Maritime Corps Master Plan, the Enhanced Maritime Prepositioning Squadron (EMPS) requirement, and the EAF 2000 concept. FY2011 budget also consists of procurement of EAF replacement equipment that is not recoverable. This equipment includes accessories that are required to support air operations such as: war operations, medivac landing zones and logistic resupply points for weapons, ammunition, food and general supplies at various airfields, FARPs and FOBs.

Basis for FY 2012 Baseline Budget Request: The FY 2012 baseline budget request consists of procurement of various composites of surfacing equipment, such as AM-2 matting and lightweight matting. The quantities of matting and lighting vary depending on quantities for each type of matting and service change requirements each year. Equipment procurements are based on inventory shortfalls, product improvements to fill or correct known deficiencies, modernizing EAF equipment to improve maintainability, reliability and safety-of-flight, and to keep pace with new aircraft and aircraft systems.

Basis for FY2012 Overseas Contingency Operations (OCO) Request: Budget consists of procurement of EAF replacement equipment that is not recoverable and AM-2 matting. This equipment includes accessories that are required to support air operations such as: war operations, medivac landing zones and logistic resupply points for weapons, ammunition, food and general supplies at various airfields, FARPs and FOBs.

Basis for FY2013 Baseline Budget Request: The FY2013 baseline budget request consists of procurement of various composites of surfacing equipment, such as AM-2 matting and lightweight matting. The quantities of matting and lighting vary depending on quantities for each type of matting and service change requirements each year. Equipment procurements are based on inventory shortfalls, product improvements to fill or correct deficiencies, modernizing EAF equipment to improve maintainability, reliability and safety-of-flight, and to keep pace with new aircraft and aircraft systems.

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
 4208 - Expeditionary Airfields

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

Basis for FY2013 Overseas Contingency Operations (OCO) Budget Request: The FY2013 OCO request is to replace AM-2 matting, AM-2 accessories, hard wired lighting and Minimum Operating Strip Lighting System (MOSLS) to support continued rotary wing operations at existing Forward Operating Bases (FOBs) and Forward Arming and refueling Points (FARPs). This equipment will also be available for future planned Expeditionary Airfields provided to joint forces from United Marine Corp stocks, as directed by Commander, Joint Chiefs of Staff Executive Order 221811ZDec09. This direction creates a significant shortfall in USMC AM-2 matting and an inability to create/support FOBs/FARPs in any OCONUS or location. This request continues to mitigate this shortfall.

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Expeditionary Airfields (See enclosed P-40A)	P40A, P5A, P21				181.866			12.983			55.561			8.678			58.200			66.878
<b>Total Gross/Weapon System Cost</b>				<b>181.866</b>			<b>12.983</b>			<b>55.561</b>			<b>8.678</b>			<b>58.200</b>			<b>66.878</b>	

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**

**UNCLASSIFIED**

Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy															Date: February 2012				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3					P-1 Line Item Nomenclature: 4208 - Expeditionary Airfields					Aggregated Item Name: Expeditionary Airfields									
Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) (SE010) EAF Surfacing Equipment</b>																			
† 1.1) AM-2 Matting	A	-	-	112.517	13,000.00	500	6.500	14,000.00	2,120	29.680	15,000.00	130	1.950	15,000.00	2,230	33.450	15,000.00	2,360	35.400
† 1.2) F-87 Light Weight Matting	A	-	-	2.400	10,000.00	91	0.910	11,000.00	90	0.990	11,000.00	90	0.990	11,000.00	241	2.651	11,000.00	331	3.641
1.3) F-88 Light Weight Matting	A	-	-	2.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 1.4) *AM-2 Shipping Containers	A	-	-	0.196	8,000.00	54	0.432	9,000.00	28	0.252	10,214.29	28	0.286	10,000.00	65	0.650	10,064.52	93	0.936
1.5) AM-2 Accessory Packs (1) (1)	A	-	-	2.081	-	-	1.976	-	-	18.435	-	-	1.166	-	-	17.998	-	-	19.164
<i>Subtotal 1) (SE010) EAF Surfacing Equipment</i>				<i>119.594</i>			<i>9.818</i>			<i>49.357</i>			<i>4.392</i>			<i>54.749</i>			<i>59.141</i>
<b>2) (SE010) EAF Lighting Equipment</b>																			
2.1) Man Portable Lights	A	-	-	31.801	-	-	1.658	-	-	3.297	-	-	3.480	-	-	0.850	-	-	4.330
<i>Subtotal 2) (SE010) EAF Lighting Equipment</i>				<i>31.801</i>			<i>1.658</i>			<i>3.297</i>			<i>3.480</i>			<i>0.850</i>			<i>4.330</i>
<b>3) (SE0210) EAF Arresting Gear</b>																			
3.1) M-31 Arresting Gear	A	-	-	9.774	-	-	1.048	-	-	0.825	-	-	0.694	-	-	0.784	-	-	1.478
<i>Subtotal 3) (SE0210) EAF Arresting Gear</i>				<i>9.774</i>			<i>1.048</i>			<i>0.825</i>			<i>0.694</i>			<i>0.784</i>			<i>1.478</i>
<b>4) (SE800) Integrated Logistics Support</b>																			
4.1) EAF Surfacing Equipment	A	-	-	2.216	-	-	0.108	-	-	0.575	-	-	0.010	-	-	0.551	-	-	0.561
4.2) EAF Lighting Equipment	A	-	-	2.151	-	-	0.040	-	-	0.020	-	-	0.010	-	-	0.100	-	-	0.110
4.3) EAF Arresting Gear	A	-	-	2.151	-	-	0.020	-	-	0.020	-	-	0.005	-	-	0.050	-	-	0.055
<i>Subtotal 4) (SE800) Integrated Logistics Support</i>				<i>6.518</i>			<i>0.168</i>			<i>0.615</i>			<i>0.025</i>			<i>0.701</i>			<i>0.726</i>
<b>5) (SE830) Production Engineering</b>																			

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4208 - Expeditionary Airfields **Aggregated Item Name:** Expeditionary Airfields

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.1) EAF Surfacing Equipment	A	-	-	2.623	-	-	0.070	-	-	0.807	-	-	0.042	-	-	0.788	-	-	0.830
5.2) EAF Lighting Equipment	A	-	-	2.614	-	-	0.040	-	-	0.040	-	-	0.019	-	-	0.060	-	-	0.079
5.3) EAF Arresting Gear	A	-	-	2.603	-	-	0.040	-	-	0.018	-	-	0.010	-	-	0.060	-	-	0.070
<i>Subtotal 5) (SE830) Production Engineering</i>				7.840			0.150			0.865			0.071			0.908			0.979
<b>6) (SE860) Acceptance Testing and Evaluation</b>																			
6.1) EAF Surfacing Equipment	A	-	-	2.123	-	-	0.101	-	-	0.572	-	-	0.010	-	-	0.088	-	-	0.098
6.2) EAF Lighting Equipment	A	-	-	2.113	-	-	0.040	-	-	0.030	-	-	0.006	-	-	0.070	-	-	0.076
6.3) EAF Arresting Gear	A	-	-	2.103	-	-	-	-	-	-	-	-	0.000	-	-	0.050	-	-	0.050
<i>Subtotal 6) (SE860) Acceptance Testing and Evaluation</i>				6.339			0.141			0.602			0.016			0.208			0.224
<b>Total</b>				<b>181.866</b>			<b>12.983</b>			<b>55.561</b>			<b>8.678</b>			<b>58.200</b>			<b>66.878</b>

**Remarks:**  
<sup>(1)</sup>Note: AM-2 Accessory Packs and Man Portable Light Packs consists of multiple low priced items. Multiple different configurations are procured each year. Therefore, individual quantities are not provided for some EAF equipment.

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4208 - Expeditionary Airfields **Aggregated Item Name:** Expeditionary Airfields

Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) (SE010) EAF Surfacing Equipment</b>												
†1.1) AM-2 Matting		2011	ALFAB / Mountgomery, AL	C / IDIQ	LKE	Aug 2011	Jan 2012	171	13,000.00	Y		Oct 2007
†1.1) AM-2 Matting	✓	2011	ALFAB / Mountgomery, AL	C / IDIQ	LKE	Sep 2011	Feb 2012	329	13,000.00	Y		Oct 2007
†1.1) AM-2 Matting		2012	TBD / TBD	C / FFP	LKE	Feb 2012	May 2012	120	14,000.00	Y		Sep 2011
†1.1) AM-2 Matting	✓	2012	TBD / TBD	C / FFP	LKE	Feb 2012	May 2012	2,000	14,000.00	Y		Sep 2011
†1.1) AM-2 Matting		2013	TBD / TBD	C / FFP	LKE	Feb 2013	May 2013	130	15,000.00	Y		Sep 2011
†1.1) AM-2 Matting	✓	2013	TBD / TBD	C / FFP	LKE	Feb 2013	May 2013	2,230	15,000.00	Y		Sep 2011
1.2) F-87 Light Weight Matting		2011	Dechamps / Angouleme, France	C / IDIQ	LKE	Mar 2011	Jul 2011	91	10,000.00	Y		Feb 2007
1.2) F-87 Light Weight Matting		2012	Dechamps / Angouleme, France	C / IDIQ	LKE	Dec 2011	Apr 2012	90	11,000.00	Y		Feb 2007
1.2) F-87 Light Weight Matting		2013	Dechamps / Angouleme, France	C / IDIQ	LKE	Dec 2012	Apr 2013	90	11,000.00	Y		Dec 2011
1.2) F-87 Light Weight Matting	✓	2013	Dechamps / Angouleme, France	C / IDIQ	LKE	Dec 2012	Apr 2013	241	11,000.00	Y		Dec 2011
1.4) *AM-2 Shipping Containers <sup>(2)</sup>		2011	Various / US Army	C / TBD	US Army	Aug 2011	Jan 2012	54	8,000.00	Y		
1.4) *AM-2 Shipping Containers		2012	Various / US Army	C / TBD	US Army	Dec 2011	Apr 2012	28	9,000.00	Y		
1.4) *AM-2 Shipping Containers		2013	Various / US Army	C / TBD	US Army	Dec 2012	Apr 2013	28	10,214.29	Y		
1.4) *AM-2 Shipping Containers	✓	2013	Various / US Army	C / TBD	US Army	Dec 2012	Apr 2013	65	10,000.00	Y		

**Remarks:**

<sup>(2)</sup>\*AM-2 Shipping containers are requisitioned from the US Army. MIPR is sent to the U.S. Army.

**UNCLASSIFIED**

**Exhibit P-21, Budget Production Schedule: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4208 - Expeditionary Airfields **Aggregated Item Name:** Expeditionary Airfields

COST ELEMENTS Units in Each							Fiscal Year 2012													Fiscal Year 2013											
O C O	MFR Ref #	FY	SERVICE <sup>±</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2012													Calendar Year 2013											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
1) (SE010) EAF Surfacing Equipment																															
1.1) AM-2 Matting																															
	7	2011	NAVY	171	0	171	-	-	-	171																					
✓	7	2011	NAVY	329	0	329	-	-	-	-	329																				
	8	2012	NAVY	120	0	120	-	-	-	-	A -	-	-	120																	
✓	8	2012	NAVY	2000	0	2000	-	-	-	-	A -	-	-	282	282	282	282	282	282	308											
	8	2013	NAVY	130	0	130	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	130								
✓	8	2013	NAVY	2230	0	2230	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	282	282	282	282	282	820			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L



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**Exhibit P-21, Budget Production Schedule:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4208 - Expeditionary Airfields **Aggregated Item Name:** Expeditionary Airfields

COST ELEMENTS Units in Each							Fiscal Year 2014										Fiscal Year 2015													
O C O	MFR Ref #	FY	SERVICE <sup>±</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
1) (SE010) EAF Surfacing Equipment																														
1.1) AM-2 Matting																														
	7	2011	NAVY	171	171	0																								
✓	7	2011	NAVY	329	329	0																								
	8	2012	NAVY	120	120	0																								
✓	8	2012	NAVY	2000	2000	0																								
	8	2013	NAVY	130	130	0																								
✓	8	2013	NAVY	2230	1410	820	282	282	256																					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4208 - Expeditionary Airfields	<b>Aggregated Item Name:</b> Expeditionary Airfields

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	ALFAB - Mountgomery, AL	225	1250	3393	0	5	3	8	0	0	0	0
2	TBD - TBD	225	1250	3393	0	5	3	8	0	0	0	0

**Remarks:**  
 ‡ Delivery rows marked with the ♦ symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4214 - Acft Rearming Equip

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	363.183	11.074	5.587	11.349	-	11.349	11.476	12.310	12.510	12.739	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	363.183	11.074	5.587	11.349	-	11.349	11.476	12.310	12.510	12.739	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	363.183	11.074	5.587	11.349	-	11.349	11.476	12.310	12.510	12.739	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	0.047	0.111	0.057	-	0.057	0.010	0.003	-	-	0.000	0.228
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This program funds the procurement of common Armament Support Equipment (ASE), and Weapons Support Equipment (WSE) under the procurement and inventory control of the Naval Inventory Control Point and the Naval Air Systems Command. This budget line supports: (a) initial outfitting for all in-production weapons systems; (b) procurement of new Support Equipment, and (c) procurement of replacement items for obsolete Support Equipment. These items support sustained operations and surge deployments of the CV battle groups. Shipboard/Shorebased WSE is utilized by weapons departments to handle, transport, and maintain weapons. Shipboard/Shorebased ASE is utilized by squadrons and supporting activities to load and service aircraft weapons and guns.

FY11 provides funding to procure: A/M32K-4A Munitions Trailer Replacement, MHU-191/M CILOP, and associated support costs.

FY12 provides funding to procure: MC Weapons Assembly Station, MHU-191/M CILOP, A/F48T-6 OHE Test Stand CILOP, Next Generation Handler (Ship) ADU-901/E, LALS Power Drive Tool, and associated support costs.

FY13 provides funding to procure: MC Weapons Assembly Station, A/M32K-4A Munitions Trailer Replacement, A/M32U-21 Ordnance Trailer, MHU-191/M CILOP, A/F48T-6 OHE Test Stand CILOP, MHU-126/202 Trailer Replacement, Next Generation Handler (Ship) ADU-901/E, LALS Power Drive Tool, and associated support costs.

Note: Elements of Cost that are not currently funded in the FYDP are no longer included in the "Prior Year" column. Elements of Cost in the "Prior Year" column include Nonrecurring Engineering (NRE).

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Acft Rearming Equip (See enclosed P-40A)	P40A, P5A				363.183			11.074			5.587			11.349			0.000			11.349

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment	<b>P-1 Line Item Nomenclature:</b> 4214 - Acft Rearming Equip
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Total Gross/Weapon System Cost					363.183			11.074			5.587			11.349			-			11.349

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**

**UNCLASSIFIED**

Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy															Date: February 2012				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3					P-1 Line Item Nomenclature: 4214 - Acft Rearming Equip					Aggregated Item Name: Acft Rearming Equip									
Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) HARDWARE - Ordnance Assembly</b>																			
† 1.1) SH042 - MC WEAPONS ASSEMBLY STATION (A/ E32K-11 LIFTING ASSLY) <sup>(1)</sup>	B	-	-	2.351	-	-	-	415,750.00	3	1.247	416,000.00	5	2.080	-	-	-	416,000.00	5	2.080
<i>Subtotal 1) HARDWARE - Ordnance Assembly</i>				2.351			0.000			1.247			2.080			0.000			2.080
<b>2) HARDWARE - Ordnance Transport</b>																			
2.1) SH024 - ADU-514A/ E MISSILE ADAPTER	A	-	-	3.727	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 2.2) SH030 - AERO-51B (MHU-227/M) TRAILER	A	-	-	6.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 2.3) SH036 - A/M32K-4A MUN TRLR REPLACEMENT - (A/M32K-10 MUN TRLR) <sup>(2)</sup>	B	-	-	3.067	47,347.00	167	7.907	-	-	-	51,533.00	38	1.958	-	-	-	51,533.00	38	1.958
† 2.4) SH039 - A/M32U-21 ORDNANCE TRAILER <sup>(3)</sup>	B	-	-	1.417	-	-	-	-	-	-	123,493.00	7	0.864	-	-	-	123,493.00	7	0.864
† 2.5) SH040 - LGB WEAPONS ADAPTER - (ADU-895/E LGB)	A	-	-	3.276	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 2.6) SH041 - MHU-228/E SLING	A	-	-	0.185	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 2.7) SH043 - MHU-191/ M CILOP - MHU-191A/ M MUN TRANSPORTER	B	-	-	-	5,000.00	48	0.240	5,085.00	100	0.509	5,172.00	331	1.712	-	-	-	5,172.00	331	1.712
† 2.8) SH044 - A/F48T-6 OHE TEST STAND CILOP	B	-	-	-	-	-	-	50,000.00	5	0.250	50,000.00	5	0.250	-	-	-	50,000.00	5	0.250

**UNCLASSIFIED**

Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy															Date: February 2012				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3					P-1 Line Item Nomenclature: 4214 - Acft Rearming Equip					Aggregated Item Name: Acft Rearming Equip									
Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
† 2.9) SH045 - MHU-126/202 TRLR REPLACEMENT - (MHU-230/M)	B	-	-	-	-	-	-	-	-	-	40,000.00	4	0.160	-	-	-	40,000.00	4	0.160
<i>Subtotal 2) HARDWARE - Ordnance Transport</i>				17.685			8.147			0.759			4.944			0.000			4.944
<b>3) HARDWARE - Ordnance Loading</b>																			
3.1) SH033 - LALS II LOADER	A	-	-	36.312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) SH034 - LALS II REPLENISHER	A	-	-	3.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 3.3) SH037 - NEXT GENERATION HANDLER (SHIP) - ADU-901/E GHE ADAPTER	B	-	-	-	-	-	-	20,000.00	15	0.300	20,000.00	15	0.300	-	-	-	20,000.00	15	0.300
† 3.4) SH038 - LALS POWER DRIVE TOOL	B	-	-	-	-	-	-	10,000.00	50	0.500	10,000.00	100	1.000	-	-	-	10,000.00	100	1.000
3.5) SH046 - A/S32K-1E WEAPONS LOADER REPLACEMENT	B	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) HARDWARE - Ordnance Loading</i>				39.412			0.000			0.800			1.300			0.000			1.300
<b>4) SH920 NON-RECURRING</b>																			
4.1) Non-Recurring Prior Years	A	-	-	0.880	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2) Ordnance Assembly	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.3) Ordnance Transport	A	-	-	-	-	-	0.220	-	-	0.200	-	-	-	-	-	-	-	-	-
4.4) Ordnance Loading	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) SH920 NON-RECURRING</i>				0.880			0.220			0.200			0.000			0.000			0.000
<b>5) SH010 ECP</b>																			
5.1) ECP Prior Years	A	-	-	249.861	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy															Date: February 2012				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3					P-1 Line Item Nomenclature: 4214 - Acft Rearming Equip					Aggregated Item Name: Acft Rearming Equip									
Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.2) Ordnance Assembly	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.3) Ordnance Transport	A	-	-	-	-	-	0.077	-	-	0.042	-	-	0.090	-	-	-	-	-	0.090
5.4) Ordnance Loading	A	-	-	-	-	-	0.049	-	-	-	-	-	0.089	-	-	-	-	-	0.089
<i>Subtotal 5) SH010 ECP</i>				249.861			0.126			0.042			0.179			0.000			0.179
<b>6) SH800 ILS</b>																			
6.1) ILS Prior Years	A	-	-	0.979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) Ordnance Assembly	A	-	-	-	-	-	0.150	-	-	0.096	-	-	0.227	-	-	-	-	-	0.227
6.3) Ordnance Transport	A	-	-	-	-	-	0.327	-	-	0.359	-	-	0.387	-	-	-	-	-	0.387
6.4) Ordnance Loading	A	-	-	-	-	-	0.349	-	-	0.189	-	-	0.289	-	-	-	-	-	0.289
<i>Subtotal 6) SH800 ILS</i>				0.979			0.826			0.644			0.903			0.000			0.903
<b>7) SH830 Production Engineering</b>																			
7.1) Production Engineering Prior Years	A	-	-	43.131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.2) Ordnance Assembly	A	-	-	-	-	-	0.294	-	-	0.272	-	-	0.273	-	-	-	-	-	0.273
7.3) Ordnance Transport	A	-	-	-	-	-	0.584	-	-	0.679	-	-	0.723	-	-	-	-	-	0.723
7.4) Ordnance Loading	A	-	-	-	-	-	0.340	-	-	0.344	-	-	0.345	-	-	-	-	-	0.345
<i>Subtotal 7) SH830 Production Engineering</i>				43.131			1.218			1.295			1.341			0.000			1.341
<b>8) SH860 Acceptance Test &amp; Eval</b>																			
8.1) Acceptance Test & Eval Prior Years	A	-	-	8.884	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.2) Ordnance Assembly	A	-	-	-	-	-	0.128	-	-	0.128	-	-	0.124	-	-	-	-	-	0.124
8.3) Ordnance Transport	A	-	-	-	-	-	0.254	-	-	0.311	-	-	0.324	-	-	-	-	-	0.324
8.4) Ordnance Loading	A	-	-	-	-	-	0.155	-	-	0.161	-	-	0.154	-	-	-	-	-	0.154

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4214 - Acft Rearming Equip **Aggregated Item Name:** Acft Rearming Equip

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal 8) SH860 Acceptance Test & Eval				8.884			0.537			0.600			0.602			0.000			0.602
<b>Total</b>				<b>363.183</b>			<b>11.074</b>			<b>5.587</b>			<b>11.349</b>			<b>0.000</b>			<b>11.349</b>

**Remarks:**

- (1)SH042: A/E32K-11 Munitions Lifting Assembly (MLA) Unit Price increase.  
The original A/E32K-11 Munitions Lifting Assembly (MLA) cost estimate was based on procuring units off of an existing USAF contract, however, testing of the USAF unit indicated non-compatibility with the USMC Medium Tactical Vehicle Replacement truck and insufficient lifting capacity to support USMC ordnance loading requirements. The updated MLA cost estimate is based on the recently awarded contract using competitive source selection procedures and reflects meeting USMC vehicle and lifting requirements.
- (2)SH036: FY12 reduced by \$2.354M per Issue #75827; Munitions Trailer Contract Delay
- (3)SH039: Unit cost includes GFE (1 Air compressor & MEP-1040/MEP-1041 Generators). FY12 reduced by \$1M per Issue #75828; Ordnance Trailer Contract Delay.  
Elements of Cost that are not currently funded in the FYDP are no longer included in the "Prior Year" column.  
Elements of Cost in the "Prior Year" column include Nonrecurring Engineering (NRE).



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Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Navy										Date: February 2012		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3				P-1 Line Item Nomenclature: 4214 - Acft Rearming Equip					Aggregated Item Name: Acft Rearming Equip			
Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) HARDWARE - Ordnance Assembly</b>												
1.1) SH042 - MC WEAPONS ASSEMBLY STATION (A/E32K-11 LIFTING ASSLY)		2010	NDI / THOROFARE, NJ	C / FFP	NAWCADLKE	Mar 2011	Feb 2012	2	416,000.00	Y		Mar 2010
1.1) SH042 - MC WEAPONS ASSEMBLY STATION (A/E32K-11 LIFTING ASSLY)		2012	NDI / THOROFARE, NJ	C / FFP	NAWCADLKE	Aug 2012	Feb 2013	3	415,750.00	Y		Mar 2010
1.1) SH042 - MC WEAPONS ASSEMBLY STATION (A/E32K-11 LIFTING ASSLY)		2013	NDI / THOROFARE, NJ	C / FFP	NAWCADLKE	Mar 2013	Sep 2013	5	416,000.00	Y		Mar 2010
<b>2) HARDWARE - Ordnance Transport</b>												
2.2) SH030 - AERO-51B (MHU-227/M) TRAILER		2009	DEVAL CORPORATION / PHILADELPHIA, PA	C / FFP	NAWCADLKE	Dec 2008	Jul 2009	112	14,480.00	Y		May 2006
2.2) SH030 - AERO-51B (MHU-227/M) TRAILER		2010	DEVAL CORPORATION / PHILADELPHIA, PA	C / FFP	NAWCADLKE	Mar 2010	Aug 2010	39	15,133.00	Y		May 2006
2.3) SH036 - A/M32K-4A MUN TRLR REPLACEMENT - (A/M32K-10 MUN TRLR)		2010	CAROLINA GROWLER / STAR, NC	C / FFP	NAWCADLKE	Jul 2011	Mar 2012	30	80,570.00	Y		Nov 2010
2.3) SH036 - A/M32K-4A MUN TRLR REPLACEMENT - (A/M32K-10 MUN TRLR)		2011	CAROLINA GROWLER / STAR, NC	C / FFP	NAWCADLKE	Jul 2011	Jan 2013	167	47,347.00	Y		Nov 2010
2.3) SH036 - A/M32K-4A MUN TRLR REPLACEMENT - (A/M32K-10 MUN TRLR) (4)		2013	CAROLINA GROWLER / STAR, NC	C / FFP	NAWCADLKE	Dec 2012	Apr 2014	38	51,533.00	Y		Nov 2010
2.4) SH039 - A/M32U-21 ORDNANCE TRAILER		2010	CAROLINA GROWLER / Star NC	C / FFP	NAWCADLKE	Jul 2011	Feb 2012	2	255,534.00	Y		Nov 2010
2.4) SH039 - A/M32U-21 ORDNANCE TRAILER (5)		2013	CAROLINA GROWLER / Star NC	C / FFP	NAWCADLKE	Dec 2012	Jun 2013	7	123,493.00	Y		Nov 2010
2.5) SH040 - LGB WEAPONS ADAPTER - (ADU-895/E LGB)		2009	BLUE CHIP MANUFACTURING & SALES / COLUMBUS, OH	C / FFP	NAWCADLKE	Jul 2010	Sep 2010	50	3,600.00	Y		Aug 2009
2.5) SH040 - LGB WEAPONS ADAPTER - (ADU-895/E LGB)		2010	BLUE CHIP MANUFACTURING & SALES / COLUMBUS, OH	C / FFP	NAWCADLKE	Sep 2010	Mar 2011	833	3,600.00	Y		Aug 2009
2.6) SH041 - MHU-228/E SLING		2009	PARTS LIFE INC / CINNAMINSON, NJ	C / FFP	NAWCADLKE	Jul 2010	Oct 2010	55	3,083.00	Y		Oct 2009
2.7) SH043 - MHU-191/M CILOP - MHU-191A/M MUN TRANSPORTER		2011	SEFAC / SOLOMONS, MD	MIPR	NAWCADLKE	Aug 2011	Feb 2012	48	5,000.00	Y		Jun 2011
2.7) SH043 - MHU-191/M CILOP - MHU-191A/M MUN TRANSPORTER		2012	SEFAC / SOLOMONS, MD	MIPR	NAWCADLKE	Feb 2012	May 2012	100	5,085.00	Y		Jun 2011

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Navy **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4214 - Acft Rearming Equip	<b>Aggregated Item Name:</b> Acft Rearming Equip
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Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
2.7) SH043 - MHU-191/M CILOP - MHU-191A/M MUN TRANSPORTER		2013	SEFAC / SOLOMONS, MD	MIPR	NAWCADLKE	Jan 2013	Apr 2013	331	5,172.00	Y		Jun 2011
2.8) SH044 - A/F48T-6 OHE TEST STAND CILOP		2012	TBD / TBD	C / FFP	NAWCADLKE	Mar 2012	Aug 2012	5	50,000.00	Y		Sep 2011
2.8) SH044 - A/F48T-6 OHE TEST STAND CILOP		2013	TBD / TBD	C / FFP	NAWCADLKE	Mar 2013	Oct 2013	5	50,000.00	Y		Sep 2011
2.9) SH045 - MHU-126/202 TRLR REPLACEMENT - (MHU-230/M)		2013	TBD / TBD	C / FFP	NAWCADLKE	Mar 2013	Oct 2013	4	40,000.00	Y		Mar 2012
<b>3) HARDWARE - Ordnance Loading</b>												
3.3) SH037 - NEXT GENERATION HANDLER (SHIP) - ADU-901/E GHE ADAPTER		2012	TBD / TBD	C / FFP	NAWCADLKE	Mar 2012	Sep 2012	15	20,000.00	Y		Jun 2011
3.3) SH037 - NEXT GENERATION HANDLER (SHIP) - ADU-901/E GHE ADAPTER		2013	TBD / TBD	C / FFP	NAWCADLKE	Mar 2013	Sep 2013	15	20,000.00	Y		Jun 2011
3.4) SH038 - LALS POWER DRIVE TOOL		2012	TBD / TBD	C / FFP	NAWCADLKE	Mar 2012	Sep 2012	50	10,000.00	Y		Jun 2011
3.4) SH038 - LALS POWER DRIVE TOOL		2013	TBD / TBD	C / FFP	NAWCADLKE	Mar 2013	Sep 2013	100	10,000.00	Y		Jun 2011

**Remarks:**  
<sup>(4)</sup>SH036: FY10 unit price includes initial NRE. Per Issue #75827; Munitions Trailer Contract Delay, FY12 was reduced by \$2.354M. FY12 requirement was moved to To Complete.  
<sup>(5)</sup>SH039: Per Issue #75828; Ordnance Trailer Contract Delay, FY12 was reduced by \$1M. FY12 requirement was moved to To Complete.

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment	<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip
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ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items: 0204112N	Other Related Program Elements: 0604512N
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Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	100.628	28.724	19.777	82.618	-	82.618	65.088	48.613	55.584	56.603	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	100.628	28.724	19.777	82.618	-	82.618	65.088	48.613	55.584	56.603	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	100.628	28.724	19.777	82.618	-	82.618	65.088	48.613	55.584	56.603	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	0.568	0.014	3.694	-	3.694	0.879	0.198	0.176	0.173	Continuing	Continuing
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This program provides for procurement of major aircraft Launch, Recovery, and Visual Landing Aids (VLA) equipment as well as ancillary items required for installation aboard aircraft carriers, air capable combatant vessels, amphibious assault ships and shore stations. Most procurements are initiated due to one of the following reasons:

- (1) urgent fleet problems associated with the safe and reliable operation of existing equipment;
- (2) expanding responsibilities in support of helicopter operations on Air Capable Ships (ACS) and Vertical / Short Take-Off and Landing (V/STOL) aircraft and;
- (3) the demand for increased launch and recovery equipment reliability, availability and maintainability (RAM); capability; and margin of safety.

Shipboard installed items procured under this program are for operational fleet aircraft carriers, air capable combatant vessels, and amphibious assault ships. Major equipment and service changes procured in support of the Fleet Modernization Program (FMP) are generally installed by shipyard personnel during routine or restricted availabilities and regular overhauls. Non-FMP installations include minor equipment and service changes that are installed by Alteration Installation Teams (AIT) or Voyage Repair Teams (VRT) from the Naval Aviation Depots (NADEPs) under the direction of Fleet Type Commanders and the Naval Air Warfare Center, Aircraft Division (NAWCAD), Lakehurst, NJ. Type Commanders (TYCOMs) determine shorebased installed item requirements.

**Launcher Service Change Kits**

Launcher Service Change Kits are used to support the procurement of product improvements recently identified through metrics and prioritization process with the TYCOMs. Launcher service change kit programs will reduce system down-time and increase availability.

**Visual Landing Aids Service Change Kits**

Visual Landing Aids (VLA) Service Change Kits are used to support the procurement of corrective actions for product deficiencies related to changing operating conditions, obsolescence and product improvements identified through metrics and prioritization process with the TYCOMs. The various VLA programs will reduce system down-time and increase availability.

**Recovery Service Change Kits**

Recovery Service Change Kits will be used to procure hardware which will improve arresting gear maintainability and availability. Recovery service change kits will also include procuring aircraft firefighting thermal imager initial outfitting of CVN class ships. The programs have been identified through fleet metrics data and maintenance actions. In FY13, the reason for the big increase in the Recovery Service Change Kit line is due to the Advanced Recovery Control (ARC) Constant Run-Out Valve (CROV) Actuator Redesign Effort and the ARC Retract Control Valve (RCV) Redesign Effort. The ARC CROV Actuator Redesign Effort is to improve the current two piece design into a one piece design that will eliminate cracks in the piston threads which could cause a failsafe arrestment. The one piece design will improve the piston and seal life and will allow for better predictability in performance and system supportability. The ARC CROV Actuator Redesign Effort is to fix current design issues which have resulted in

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**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4216 - Acft Launch & Recovery Equip

**ID Code** (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** 0204112N **Other Related Program Elements:** 0604512N

several units having to be sent back to the manufacturer because they were not operating properly. The increased lead time is impacting the ability to support fleet demand. This effort will increase reliability, interchangeability and improve current lead times.

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Air Launch & Recovery Equip (See enclosed P-40A)	P40A				31.188			14.817			9.621			16.101			0.000			16.101
Moriah Wind System - ACS SJ263 - 1	P3A		-	-	2.067	-	-	0.267	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Advanced Recovery Control System - CVN (SJ280) - 2	P3A		-	-	60.521	-	-	5.438	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Advanced Arresting Gear (SJ301) - 3	P3A		-	-	0.000	-	-	0.000	-	-	1.400	-	-	57.438	-	-	0.000	-	-	57.438
ADMACS Block Upgrade (SJ302) - 4	P3A		-	-	6.852	-	-	8.202	-	-	8.756	-	-	9.079	-	-	0.000	-	-	9.079
<b>Total Gross/Weapon System Cost</b>					<b>100.628</b>			<b>28.724</b>			<b>19.777</b>			<b>82.618</b>			-			<b>82.618</b>
		ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Air Launch & Recovery Equip (See enclosed P-40A)	P40A				0.000			0.000			0.000			0.000			0.000			0.000
Moriah Wind System - ACS SJ263 - 1	P3A		-	-	5.194	-	-	6.567	-	-	4.095	-	-	8.525	-	-	180.814	-	-	207.529
Advanced Recovery Control System - CVN (SJ280) - 2	P3A		-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	65.959
Advanced Arresting Gear (SJ301) - 3	P3A		-	-	21.837	-	-	11.825	-	-	6.286	-	-	2.302	-	-	81.089	-	-	182.177
ADMACS Block Upgrade (SJ302) - 4	P3A		-	-	13.074	-	-	8.666	-	-	0.000	-	-	0.000	-	-	0.000	-	-	54.629
<b>Total Gross/Weapon System Cost</b>					<b>65.088</b>			<b>48.613</b>			<b>55.584</b>			<b>56.603</b>			-			-

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**  
Moriah Wind System  
Moriah Wind System (MWS) provides digital wind speed and direction information, including crosswind and headwind, to support decision-making for air operations, combat, navigation, tactical planning, and weapons employment and firefighting. MWS replaces the Type F Wind Measuring and Indicating System. In addition, MWS displays Aircraft Recovery Bulletins (ARBs), Launch and Recovery Envelopes

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment		<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b> 0204112N	<b>Other Related Program Elements:</b> 0604512N
<p>(LREs) and Vertical Short Take-off and Landing (VSTOL) Bulletin Data. MWS consists of wind sensor units (WSU), a redundant wind processor unit (WPU), high-end displays (HED) and low-end displays (LED).</p> <p><b>Advance Recovery Control System</b> The Advanced Recovery Control (ARC) system provides a recovery control and monitoring function. The ARC system replaces the Mark 7 arresting gear constant runout valve mechanical actuator components and chain drive system with a computer controlled hydraulic operator. The ARC system also replaces the manually operated retract levers at the arresting gear deck edge station and associated cable system with an electronically controlled electro-hydrostatic actuator system for each engine. The ARC / Cross Check system provides the aircraft type selected for recovery, arresting gear engine status, Improved Fresnel Lens Optical Landing System (IFLOLS) status, the targeted arresting gear wire, clear deck / foul deck status, headwind / crosswind advisory, arresting gear and IFLOLS crosscheck indication.</p> <p><b>Advanced Arresting Gear</b> Advanced Arresting Gear (AAG) will replace the legacy MK7 arresting gear aboard Nimitz and Ford class aircraft carriers. AAG will provide the U.S. Navy with the ability to recover existing and projected aircraft carrier based air vehicles well into the 21st century. AAG will provide increased operational availability, while reducing manning, maintenance and support costs. Milestone C is scheduled for 2nd quarter FY2013. Low Rate Initial Production (LRIP) is scheduled for 1st quarter 2013. Initial Operational Capability is scheduled for 3rd quarter FY2017.</p> <p><b>Aviation Data Management and Control System</b> The Aviation Data Management and Control System (ADMACS) is an integrated, network-centric, shipboard aviation operations information management system, which will provide data required for CVN aviation operations planning, execution and readiness assessment. ADMACS communicates aviation and command related data elements across the ADMACS Local Area Network (LAN) and Integrated Shipboard Network System (ISNS) that electronically displays position and location of aircraft on the flight and hangar decks, status of aircraft; aircraft launch and recovery equipment; fuel, weapons types and quantity as well as a wide variety of other aviation related and ship information. Block 2 Milestone C approval - 30 June 2010. Full Rate Production (FRP) is scheduled for 4th quarter FY 2011.</p>		

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4216 - Acft Launch & Recovery Equip **Aggregated Item Name:** Air Launch & Recovery Equip

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) SJ040 - Service Change Kits</b>																			
1.1) Launcher	A	-	-	-	-	-	1.427	-	-	0.990	-	-	1.672	-	-	-	-	-	1.672
1.2) Visual Landing Aids	A	-	-	-	-	-	3.705	-	-	1.909	-	-	4.099	-	-	-	-	-	4.099
1.3) Recovery	A	-	-	-	-	-	2.513	-	-	2.291	-	-	5.618	-	-	-	-	-	5.618
1.4) ADMACS Block 3	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal 1) SJ040 - Service Change Kits				0.000			7.645			5.190			11.389			0.000			11.389
<b>2) SJ261 - MWS</b>																			
2.1) MWS - L Class	A	-	-	5.638	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal 2) SJ261 - MWS				5.638			0.000			0.000			0.000			0.000			0.000
<b>3) SJ281 - ARC</b>																			
3.1) ARC Shorebased	A	-	-	4.844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal 3) SJ281 - ARC				4.844			0.000			0.000			0.000			0.000			0.000
<b>4) ADMACS</b>																			
4.1) ADMACS Block 3	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal 4) ADMACS				0.000			0.000			0.000			0.000			0.000			0.000
<b>5) SJ800 - Integrated Logistics</b>																			
5.1) Service Change Kits	A	-	-	-	-	-	0.061	-	-	0.155	-	-	0.182	-	-	-	-	-	0.182
5.2) MWS (L Class)	A	-	-	0.859	-	-	0.102	-	-	-	-	-	-	-	-	-	-	-	-
5.3) ARC (Shorebased)	A	-	-	5.220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.4) ADMACS Block 3	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal 5) SJ800 - Integrated Logistics				6.079			0.163			0.155			0.182			0.000			0.182
<b>6) SJ830 - Production Engineering</b>																			
6.1) Service Change Kits	A	-	-	-	-	-	1.042	-	-	0.908	-	-	1.115	-	-	-	-	-	1.115
6.2) MWS (L Class)	A	-	-	3.021	-	-	0.361	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy															Date: February 2012				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3					P-1 Line Item Nomenclature: 4216 - Acft Launch & Recovery Equip										Aggregated Item Name: Air Launch & Recovery Equip				
Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
6.3) ARC (Shorebased)	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.4) ADMACS Block 3	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) SJ830 - Production Engineering</i>				3.021			1.403			0.908			1.115			0.000			1.115
<b>7) SJ860 - Acceptance Test &amp; Eval</b>																			
7.1) Service Change Kits	A	-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) SJ860 - Acceptance Test &amp; Eval</i>				0.000			0.050			0.000			0.000			0.000			0.000
<b>8) SJ900 - Installation - Non FMP</b>																			
8.1) Installation - Non FMP	A	-	-	3.623	-	-	2.822	-	-	2.191	-	-	2.279	-	-	-	-	-	2.279
<i>Subtotal 8) SJ900 - Installation - Non FMP</i>				3.623			2.822			2.191			2.279			0.000			2.279
<b>9) SJ910 - Installation - FMP</b>																			
9.1) Installation - FMP	A	-	-	7.983	-	-	2.734	-	-	1.177	-	-	1.136	-	-	-	-	-	1.136
<i>Subtotal 9) SJ910 - Installation - FMP</i>				7.983			2.734			1.177			1.136			0.000			1.136
<b>10) SJ990 - Initial Training</b>																			
10.1) Initial Training	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 10) SJ990 - Initial Training</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>Total</b>				<b>31.188</b>			<b>14.817</b>			<b>9.621</b>			<b>16.101</b>			<b>0.000</b>			<b>16.101</b>

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4216 - Acft Launch & Recovery Equip **Aggregated Item Name:** Air Launch & Recovery Equip

Items († indicates the presence of a P-5A)	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) SJ040 - Service Change Kits</b>																			
1.1) Launcher	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) Visual Landing Aids	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) Recovery	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) ADMACS Block 3	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) SJ040 - Service Change Kits</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>2) SJ261 - MWS</b>																			
2.1) MWS - L Class	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) SJ261 - MWS</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>3) SJ281 - ARC</b>																			
3.1) ARC Shorebased	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) SJ281 - ARC</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>4) ADMACS</b>																			
4.1) ADMACS Block 3	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) ADMACS</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>5) SJ800 - Integrated Logistics</b>																			
5.1) Service Change Kits	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2) MWS (L Class)	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.3) ARC (Shorebased)	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.4) ADMACS Block 3	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) SJ800 - Integrated Logistics</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>6) SJ830 - Production Engineering</b>																			
6.1) Service Change Kits	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) MWS (L Class)	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy															Date: February 2012				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3					P-1 Line Item Nomenclature: 4216 - Acft Launch & Recovery Equip										Aggregated Item Name: Air Launch & Recovery Equip				
Items († indicates the presence of a P-5A)	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
6.3) ARC (Shorebased)	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.4) ADMACS Block 3	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) SJ830 - Production Engineering</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>7) SJ860 - Acceptance Test &amp; Eval</b>																			
7.1) Service Change Kits	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) SJ860 - Acceptance Test &amp; Eval</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>8) SJ900 - Installation - Non FMP</b>																			
8.1) Installation - Non FMP	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 8) SJ900 - Installation - Non FMP</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>9) SJ910 - Installation - FMP</b>																			
9.1) Installation - FMP	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 9) SJ910 - Installation - FMP</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>10) SJ990 - Initial Training</b>																			
10.1) Initial Training	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 10) SJ990 - Initial Training</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>Total</b>				<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
<b>Remarks:</b>																			

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip	<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Moriah Wind System - ACS SJ263 - 1

<b>Models of Systems Affected:</b> Air Capable Ships	<b>Type Modification:</b> Increase Capability	<b>Related RDT&amp;E PEs:</b> 0604512N
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2.067	0.267	0.000	0.000	0.000	0.000	5.194	6.567	4.095	8.525	180.814	207.529
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2.067	0.267	0.000	0.000	0.000	0.000	5.194	6.567	4.095	8.525	180.814	207.529
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>2.067</b>	<b>0.267</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>5.194</b>	<b>6.567</b>	<b>4.095</b>	<b>8.525</b>	<b>180.814</b>	<b>207.529</b>

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

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

**Description:**

Moriah Wind System (MWS) provides digital wind speed and direction information, including crosswind and headwind, to support decision-making for air operations, combat, navigation, tactical planning, weapons employment and firefighting. The MWS replaces the current Type F Wind Measuring and Indicating System (WMIS), providing a single wind measuring system, consistent across all ship classes and shore stations. In addition, MWS displays Aircraft Recovery Bulletins (ARBs), Launch and Recovery Envelopes (LREs) and Vertical Short Take-off and Landing (VSTOL) Bulletin Data. MWS consists of wind sensor units (WSU), a redundant wind processor unit (WPU), high-end displays (HED) and low-end displays (LED).

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy										<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3					<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Moriah Wind System - ACS SJ263 - 1			
<b>Models of Systems Affected:</b> Air Capable Ships			<b>Type Modification:</b> Increase Capability					<b>Related RDT&amp;E PEs:</b> 0604512N					
Financial Plan	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total		
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	
<b>Procurement</b>													
Moriah Wind System - ACS SJ263													
B Kits													
Recurring													
2.1.1) Installation Kits - NonOrganic <sup>(1)</sup>													
	3	0.958	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal Recurring</i>		0.958		0.000		0.000		0.000		0.000		0.000	
<i>Total, Moriah Wind System - ACS SJ263</i>		3	0.958	-	-	-	-	-	-	-	-	-	
<i>Total, All Modifications</i>			0.958		0.000		0.000		0.000		0.000		
<b>Support</b>													
3.1) ILS													
	-	0.190	-	-	-	-	-	-	-	-	-	-	
3.2) PE													
	-	0.640	-	0.075	-	-	-	-	-	-	-	-	
3.3) Other													
	-	0.000	-	-	-	-	-	-	-	-	-	-	
3.4) Interim Contractor Support													
	-	0.000	-	-	-	-	-	-	-	-	-	-	
3.5) Installation Costs (AP for FY2015)													
	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Total Support Cost</i>			0.830		0.075		0.000		0.000		0.000		
<i>Procurement Cost (Procurement + Support)</i>			1.788		0.075		0.000		0.000		0.000		
<i>Total Installation Cost</i>			0.279		0.192		0.000		0.000		0.000		
<b>Total Cost (Procurement + Support + Installation)</b>			2.067		0.267		0.000		0.000		0.000		
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	
<b>Procurement</b>													
Moriah Wind System - ACS SJ263													
B Kits													
Recurring													
2.1.1) Installation Kits - NonOrganic <sup>(1)</sup>													
	6	2.400	-	-	7	2.912	-	-	110	44.880	126	51.150	
<i>Subtotal Recurring</i>		2.400		0.000		2.912		0.000		44.880		51.150	
<i>Total, Moriah Wind System - ACS SJ263</i>		6	2.400	-	-	7	2.912	-	-	110	44.880	51.150	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Moriah Wind System - ACS SJ263 - 1

<b>Models of Systems Affected:</b> Air Capable Ships	<b>Type Modification:</b> Increase Capability	<b>Related RDT&amp;E PEs:</b> 0604512N
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (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>Total, All Modifications</i>		2.400		0.000		2.912		0.000		44.880		51.150
<b>Support</b>												
3.1) ILS	-	0.297	-	0.251	-	0.280	-	0.277	-	7.810	-	9.105
3.2) PE	-	1.158	-	1.443	-	0.903	-	2.148	-	27.500	-	33.867
3.3) Other	-	-	-	-	-	-	-	-	-	-	-	-
3.4) Interim Contractor Support	-	-	-	-	-	-	-	-	-	-	-	-
3.5) Installation Costs (AP for FY2015)	-	-	-	1.000	-	-	-	-	-	-	-	1.000
<b>Total Support Cost</b>		1.455		2.694		1.183		2.425		35.310		43.972
<b>Procurement Cost (Procurement + Support)</b>		3.855		2.694		4.095		2.425		80.190		95.122
<b>Total Installation Cost</b>		1.339		3.873		0.000		6.100		100.624		112.407
<b>Total Cost (Procurement + Support + Installation)</b>		5.194		6.567		4.095		8.525		180.814		207.529

**Remarks:**

<sup>(1)</sup>FY12/FY13/FY15/FY17 Moriah Wind System (MWS) will be funded by other customer funds, therefore no production break.

MWS has advance planning (AP) costs for installation, which occur 1 year prior (FY14) to actual install (FY15) showing a quantity of zero.

**Manufacturer Information: Moriah Wind System - ACS SJ263**

Manufacturer Name: Manufacturer Name Not Provided.      Manufacturer Location: Manufacturer Location Not Provided.

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

Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							

**Installation: Moriah Wind System - ACS SJ263      Method of Implementation: Shipyard/AIT      Installation Name: Installation Kits**

Installation Cost	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	3	0.279	0	0.192	-	-	-	-	-	-	-	-
FY 2011	-	-	-	-	-	-	-	-	-	-	-	-
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3		<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip
		<b>Modification Nomenclature</b> (Modification Title, Modification Number): Moriah Wind System - ACS SJ263 - 1

<b>Models of Systems Affected:</b> Air Capable Ships	<b>Type Modification:</b> Increase Capability	<b>Related RDT&amp;E PEs:</b> 0604512N
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<b>Installation:</b> Moriah Wind System - ACS SJ263	<b>Method of Implementation:</b> Shipyard/AIT	<b>Installation Name:</b> Installation Kits
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Installation Cost	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M)	Qty (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 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>3</b>	<b>0.279</b>	<b>0</b>	<b>0.192</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	-	-	-	-	-	-	-	-	-	-	3	0.471
FY 2011	-	-	-	-	-	-	-	-	-	-	-	-
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	0	1.339	6	3.873	-	-	-	-	-	-	6	5.212
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	7	5.000	-	-	7	5.000
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	0	1.100	110	100.624	110	101.724
<b>Total</b>	<b>0</b>	<b>1.339</b>	<b>6</b>	<b>3.873</b>	<b>-</b>	<b>-</b>	<b>7</b>	<b>6.100</b>	<b>110</b>	<b>100.624</b>	<b>126</b>	<b>112.407</b>

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	6	1	-	-	110	126
Out	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	-	-	-	-	-	-	-	6	1	110	126

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip	<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Advanced Recovery Control System - CVN (SJ280) - 2

<b>Models of Systems Affected:</b> MK Mod 2,3 & 4	<b>Type Modification:</b> Increase Capability	<b>Related RDT&amp;E PEs:</b> 0604512N
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	60.521	5.438	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	65.959
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	60.521	5.438	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	65.959
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>60.521</b>	<b>5.438</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>65.959</b>

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

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

**Description:**

The Advanced Recovery Control (ARC) system provides a recovery control and monitoring function. The ARC system replaces the Mark 7 arresting gear Constant Run out Valve mechanical actuator components and chain drive system with a computer controlled hydraulic operator. The ARC system also replaces the manually operated retract levers at the arresting gear deck edge station and associated cable system with an electronically controlled electro-hydrostatic actuator system for each engine. The ARC/Cross Check system provides the aircraft type selected for recovery, arresting gear engine status, Improved Fresnel Lens Optical Landing System (IFLOLS) status, the targeted arresting gear wire, Clear deck/Foul deck status, Headwind/Crosswind advisory, arresting gear and IFLOLS crosscheck indication.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Advanced Recovery Control System - CVN (SJ280) - 2

<b>Models of Systems Affected:</b> MK Mod 2,3 & 4	<b>Type Modification:</b> Increase Capability	<b>Related RDT&amp;E PEs:</b> 0604512N
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Financial Plan	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<b>Procurement</b>												
Advanced Recovery Control System - CVN (SJ280)												
B Kits												
Recurring												
2.1.1) Installation Kits - NonOrganic	38	40.990	-	-	-	-	-	-	-	-	-	-
<i>Subtotal Recurring</i>		40.990		0.000		0.000		0.000		0.000		0.000
<i>Total, Advanced Recovery Control System - CVN (SJ280)</i>	38	40.990	-	-	-	-	-	-	-	-	-	-
<i>Total, All Modifications</i>		40.990		0.000		0.000		0.000		0.000		0.000
<b>Support</b>												
3.1) ILS	-	3.261	-	0.690	-	-	-	-	-	-	-	-
3.2) PE	-	8.481	-	0.779	-	-	-	-	-	-	-	-
3.3) Other	-	0.000	-	-	-	-	-	-	-	-	-	-
3.4) Interim Contractor Support	-	0.000	-	-	-	-	-	-	-	-	-	-
<i>Total Support Cost</i>		11.742		1.469		0.000		0.000		0.000		0.000
<i>Procurement Cost (Procurement + Support)</i>		52.732		1.469		0.000		0.000		0.000		0.000
<i>Total Installation Cost</i>		7.789		3.969		0.000		0.000		0.000		0.000
<b>Total Cost (Procurement + Support + Installation)</b>		<b>60.521</b>		<b>5.438</b>		<b>0.000</b>		<b>0.000</b>		<b>0.000</b>		<b>0.000</b>

Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<b>Procurement</b>												
Advanced Recovery Control System - CVN (SJ280)												
B Kits												
Recurring												
2.1.1) Installation Kits - NonOrganic	-	-	-	-	-	-	-	-	-	-	38	40.990
<i>Subtotal Recurring</i>		0.000		0.000		0.000		0.000		0.000		40.990
<i>Total, Advanced Recovery Control System - CVN (SJ280)</i>	-	-	-	-	-	-	-	-	-	-	38	40.990
<i>Total, All Modifications</i>		0.000		0.000		0.000		0.000		0.000		40.990

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip	<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> Advanced Recovery Control System - CVN (SJ280) - 2

<b>Models of Systems Affected:</b> MK Mod 2,3 & 4	<b>Type Modification:</b> Increase Capability	<b>Related RDT&amp;E PEs:</b> 0604512N
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Support</b>												
3.1) ILS	-	-	-	-	-	-	-	-	-	-	-	3.951
3.2) PE	-	-	-	-	-	-	-	-	-	-	-	9.260
3.3) Other	-	-	-	-	-	-	-	-	-	-	-	-
3.4) Interim Contractor Support	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Support Cost</b>		0.000		0.000		0.000		0.000		0.000		13.211
<b>Procurement Cost (Procurement + Support)</b>		0.000		0.000		0.000		0.000		0.000		54.201
<b>Total Installation Cost</b>		0.000		0.000		0.000		0.000		0.000		11.758
<b>Total Cost (Procurement + Support + Installation)</b>		0.000		0.000		0.000		0.000		0.000		65.959

**Remarks:**

**Manufacturer Information: Advanced Recovery Control System - CVN (SJ280)**

Manufacturer Name: Manufacturer Name Not Provided.	Manufacturer Location: Manufacturer Location Not Provided.
Administrative Leadtime (in Months):	Production Leadtime (in Months):

Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							

**Installation: Advanced Recovery Control System - CVN (SJ280)**      **Method of Implementation:** Shipyard/AIT      **Installation Name:** Installation Kits

Installation Cost	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	28	7.789	10	3.969	-	-	-	-	-	-	-	-
FY 2011	-	-	-	-	-	-	-	-	-	-	-	-
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3		<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip
		<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Advanced Recovery Control System - CVN (SJ280) - 2

<b>Models of Systems Affected:</b> MK Mod 2,3 & 4	<b>Type Modification:</b> Increase Capability	<b>Related RDT&amp;E PEs:</b> 0604512N
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<b>Installation:</b> Advanced Recovery Control System - CVN (SJ280)	<b>Method of Implementation:</b> Shipyard/AIT	<b>Installation Name:</b> Installation Kits
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Installation Cost	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M)	Qty (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	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	28	7.789	10	3.969	-	-	-	-	-	-	-	-

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	-	-	-	-	-	-	-	-	-	-	38	11.758
FY 2011	-	-	-	-	-	-	-	-	-	-	-	-
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-	-	-	-	38	11.758

Installation Schedule																															
	APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	28	-	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38
Out	28	-	-	-	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy							<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3			<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Advanced Arresting Gear (SJ301) - 3					
<b>Models of Systems Affected:</b> MK-7 legacy - Shorebased			<b>Type Modification:</b> Advanced Arresting Gear (SJ301)				<b>Related RDT&amp;E PEs:</b> 0604512N					

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	1.400	57.438	0.000	57.438	21.837	11.825	6.286	2.302	81.089	182.177
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	0.000	1.400	57.438	0.000	57.438	21.837	11.825	6.286	2.302	81.089	182.177
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>1.400</b>	<b>57.438</b>	<b>0.000</b>	<b>57.438</b>	<b>21.837</b>	<b>11.825</b>	<b>6.286</b>	<b>2.302</b>	<b>81.089</b>	<b>182.177</b>

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

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

**Description:**

Advanced Arresting Gear (AAG) will replace the legacy MK7 arresting gear aboard Nimitz & Ford class aircraft carriers. The AAG system will provide the U.S. Navy with the ability to recover existing and projected aircraft carrier based air vehicles well into the 21st century. AAG will provide increased operational availability, while reducing manning, maintenance and support costs.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Advanced Arresting Gear (SJ301) - 3
<b>Models of Systems Affected:</b> MK-7 legacy - Shorebased	<b>Type Modification:</b> Advanced Arresting Gear (SJ301)	<b>Related RDT&amp;E PEs:</b> 0604512N

Financial Plan	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<b>Procurement</b>												
Advanced Arresting Gear (SJ301)												
B Kits												
Recurring												
2.1.1) Installation Kits - NonOrganic <sup>(2)</sup>	-	-	-	-	-	-	1	55.358	-	-	1	55.358
<i>Subtotal Recurring</i>		0.000		0.000		0.000		55.358		0.000		55.358
<i>Total, Advanced Arresting Gear (SJ301)</i>	-	-	-	-	-	-	1	55.358	-	-	1	55.358
<i>Total, All Modifications</i>		0.000		0.000		0.000		55.358		0.000		55.358
<b>Support</b>												
3.1) ILS	-	-	-	-	-	-	-	0.479	-	-	-	0.479
3.2) PE	-	-	-	-	-	1.400	-	1.601	-	-	-	1.601
3.3) Other	-	0.000	-	-	-	-	-	-	-	-	-	-
3.4) Interim Contractor Support	-	0.000	-	-	-	-	-	-	-	-	-	-
<i>Total Support Cost</i>		0.000		0.000		1.400		2.080		0.000		2.080
<i>Procurement Cost (Procurement + Support)</i>		0.000		0.000		1.400		57.438		0.000		57.438
<i>Total Installation Cost</i>		0.000		0.000		0.000		0.000		0.000		0.000
<b>Total Cost (Procurement + Support + Installation)</b>		<b>0.000</b>		<b>0.000</b>		<b>1.400</b>		<b>57.438</b>		<b>0.000</b>		<b>57.438</b>

Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<b>Procurement</b>												
Advanced Arresting Gear (SJ301)												
B Kits												
Recurring												
2.1.1) Installation Kits - NonOrganic <sup>(2)</sup>	2	11.501	-	-	-	-	-	-	1	66.525	4	133.384
<i>Subtotal Recurring</i>		11.501		0.000		0.000		0.000		66.525		133.384
<i>Total, Advanced Arresting Gear (SJ301)</i>	2	11.501	-	-	-	-	-	-	1	66.525	4	133.384

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): Advanced Arresting Gear (SJ301) - 3

<b>Models of Systems Affected:</b> MK-7 legacy - Shorebased	<b>Type Modification:</b> Advanced Arresting Gear (SJ301)	<b>Related RDT&amp;E PEs:</b> 0604512N
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (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>Total, All Modifications</i>		11.501		0.000		0.000		0.000		66.525		133.384
<b>Support</b>												
3.1) ILS	-	0.491	-	0.503	-	0.516	-	0.539	-	1.762	-	4.290
3.2) PE	-	9.845	-	3.525	-	5.770	-	1.763	-	5.647	-	29.551
3.3) Other	-	-	-	-	-	-	-	-	-	-	-	-
3.4) Interim Contractor Support	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Support Cost</b>		10.336		4.028		6.286		2.302		7.409		33.841
<b>Procurement Cost (Procurement + Support)</b>		21.837		4.028		6.286		2.302		73.934		167.225
<b>Total Installation Cost</b>		0.000		7.797		0.000		0.000		7.155		14.952
<b>Total Cost (Procurement + Support + Installation)</b>		21.837		11.825		6.286		2.302		81.089		182.177

**Remarks:**

(2)FY 13 procures a complete "1 wire" AAG system with all the supporting subsystems for installation at the Jet Car Track Site in Lakehurst, NJ.

<b>Manufacturer Information: Advanced Arresting Gear (SJ301)</b>							
Manufacturer Name: General Atomics				Manufacturer Location: San Diego, CA			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 24			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates			Dec 2012				
Delivery Dates			Dec 2014				

<b>Installation:</b> Advanced Arresting Gear (SJ301)			<b>Method of Implementation:</b> Contractor				<b>Installation Name:</b> Installation Kits					
Installation Cost	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
All Prior Years	-	-	-	-	-	-	-	-	-	-	-	-
FY 2011	-	-	-	-	-	-	-	-	-	-	-	-
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3		<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip
<b>Models of Systems Affected:</b> MK-7 legacy - Shorebased		<b>Modification Nomenclature (Modification Title, Modification Number):</b> Advanced Arresting Gear (SJ301) - 3
<b>Type Modification:</b> Advanced Arresting Gear (SJ301)		<b>Related RDT&amp;E PEs:</b> 0604512N

<b>Installation:</b> Advanced Arresting Gear (SJ301)	<b>Method of Implementation:</b> Contractor	<b>Installation Name:</b> Installation Kits
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Installation Cost	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M)	Qty (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 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	-	-	-	-	-	-	-	-	-	-	-	-
FY 2011	-	-	-	-	-	-	-	-	-	-	-	-
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	1	5.464	-	-	-	-	-	-	1	5.464
FY 2014	-	-	2	2.333	-	-	-	-	-	-	2	2.333
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	1	7.155	1	7.155
Total	-	-	3	7.797	-	-	-	-	1	7.155	4	14.952

Installation Schedule																														
APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1	4
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	1	4

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy							<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3			<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ADMACS Block Upgrade (SJ302) - 4					
<b>Models of Systems Affected:</b> ADMACS Block 2			<b>Type Modification:</b> Increase Capability				<b>Related RDT&amp;E PEs:</b> 0604512N					

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	6.852	8.202	8.756	9.079	0.000	9.079	13.074	8.666	0.000	0.000	0.000	54.629
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	6.852	8.202	8.756	9.079	0.000	9.079	13.074	8.666	0.000	0.000	0.000	54.629
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>6.852</b>	<b>8.202</b>	<b>8.756</b>	<b>9.079</b>	<b>0.000</b>	<b>9.079</b>	<b>13.074</b>	<b>8.666</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>54.629</b>

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

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

**Description:**

The Aviation Data Management and Control System (ADMACS ) is an integrated, network-centric, shipboard aviation operations information management system, which will provide data required for CVN aviation operations planning, execution and readiness assessment.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy								<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3				<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ADMACS Block Upgrade (SJ302) - 4					
<b>Models of Systems Affected:</b> ADMACS Block 2			<b>Type Modification:</b> Increase Capability					<b>Related RDT&amp;E PEs:</b> 0604512N					
Financial Plan	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total		
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
<b>Procurement</b>													
ADMACS Block Upgrade (SJ302)													
B Kits													
Recurring													
2.1.1) Installation Kits - NonOrganic <sup>(3)</sup>													
	2	3.262	1	3.024	1	3.187	1	3.282	-	-	1	3.282	
<i>Subtotal Recurring</i>													
		3.262		3.024		3.187		3.282		0.000		3.282	
<i>Total, ADMACS Block Upgrade (SJ302)</i>													
	2	3.262	1	3.024	1	3.187	1	3.282	-	-	1	3.282	
<i>Total, All Modifications</i>													
		3.262		3.024		3.187		3.282		0.000		3.282	
<b>Support</b>													
3.1) ILS													
	-	0.360	-	0.271	-	0.272	-	0.176	-	-	-	0.176	
3.2) PE													
	-	1.715	-	1.206	-	1.399	-	1.015	-	-	-	1.015	
3.3) Other													
	-	0.000	-	-	-	-	-	-	-	-	-	-	
3.4) Interim Contractor Support													
	-	0.000	-	-	-	-	-	-	-	-	-	-	
<i>Total Support Cost</i>													
		2.075		1.477		1.671		1.191		0.000		1.191	
<i>Procurement Cost (Procurement + Support)</i>													
		5.337		4.501		4.858		4.473		0.000		4.473	
<i>Total Installation Cost</i>													
		1.515		3.701		3.898		4.606		0.000		4.606	
<b>Total Cost (Procurement + Support + Installation)</b>													
		6.852		8.202		8.756		9.079		0.000		9.079	
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
<b>Procurement</b>													
ADMACS Block Upgrade (SJ302)													
B Kits													
Recurring													
2.1.1) Installation Kits - NonOrganic <sup>(3)</sup>													
	2	6.761	-	-	-	-	-	-	-	-	7	19.516	
<i>Subtotal Recurring</i>													
		6.761		0.000		0.000		0.000		0.000		19.516	
<i>Total, ADMACS Block Upgrade (SJ302)</i>													
	2	6.761	-	-	-	-	-	-	-	-	7	19.516	
<i>Total, All Modifications</i>													
		6.761		0.000		0.000		0.000		0.000		19.516	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ADMACS Block Upgrade (SJ302) - 4

<b>Models of Systems Affected:</b> ADMACS Block 2	<b>Type Modification:</b> Increase Capability	<b>Related RDT&amp;E PEs:</b> 0604512N
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<b>Support</b>												
3.1) ILS	-	0.087	-	0.142	-	-	-	-	-	-	-	1.308
3.2) PE	-	1.488	-	0.724	-	-	-	-	-	-	-	7.547
3.3) Other	-	-	-	-	-	-	-	-	-	-	-	-
3.4) Interim Contractor Support	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Support Cost</b>		1.575		0.866		0.000		0.000		0.000		8.855
<b>Procurement Cost (Procurement + Support)</b>		8.336		0.866		0.000		0.000		0.000		28.371
<b>Total Installation Cost</b>		4.738		7.800		0.000		0.000		0.000		26.258
<b>Total Cost (Procurement + Support + Installation)</b>		13.074		8.666		0.000		0.000		0.000		54.629

**Remarks:**  
<sup>(3)</sup>AP is advanced planning for installation.  
 FY11 install - FY09 (Qty 2) funded equipment for NAWC LKE Lab Unit and CVN-75. Received MS C approval on June 2010. Contract was awarded - July 2010.  
 FY13 and FY14 installation costs are higher compared to other fiscal years due to the scheduled shipboard installation are both located on the West Coast (CVN-74 and 68).

**Manufacturer Information: ADMACS Block Upgrade (SJ302)**

Manufacturer Name: Chugach Alaska Corp.				Manufacturer Location: Chesapeake, VA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 9			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Jun 2011	Dec 2011	Dec 2012				
Delivery Dates	Mar 2012	Sep 2012	Sep 2013				

**Installation: ADMACS Block Upgrade (SJ302)**      **Method of Implementation:** Shipyard/AIT      **Installation Name:** Installation Kits

Installation Cost	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	1.515	2	3.149	-	-	-	-	-	-	-	-
FY 2011	-	-	0	0.552	1	3.575	-	-	-	-	-	-
FY 2012	-	-	-	-	0	0.323	1	4.273	0	0.000	1	4.273
FY 2013	-	-	-	-	-	-	0	0.333	0	0.000	0	0.333
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy																							<b>Date:</b> February 2012								
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3										<b>P-1 Line Item Nomenclature:</b> 4216 - Acft Launch & Recovery Equip										<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ADMACS Block Upgrade (SJ302) - 4											
<b>Models of Systems Affected:</b> ADMACS Block 2								<b>Type Modification:</b> Increase Capability								<b>Related RDT&amp;E PEs:</b> 0604512N															
<b>Installation:</b> ADMACS Block Upgrade (SJ302)										<b>Method of Implementation:</b> Shipyard/AIT								<b>Installation Name:</b> Installation Kits													
<b>Installation Cost</b>		<b>Prior Years</b>				<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013 Base</b>				<b>FY 2013 OCO</b>				<b>FY 2013 Total</b>									
		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>							
FY 2015		-		-		-		-		-		-		-		-		-		-		-		-							
FY 2016		-		-		-		-		-		-		-		-		-		-		-		-							
FY 2017		-		-		-		-		-		-		-		-		-		-		-		-							
To Complete		-		-		-		-		-		-		-		-		-		-		-		-							
Total		0		1.515		2		3.701		1		3.898		1		4.606		0		0.000		1		4.606							
<b>Installation Cost</b>		<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>To Complete</b>				<b>Total</b>									
		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>		<i>Qty (Each)</i>		<i>Total Cost (\$ M)</i>							
All Prior Years		-		-		-		-		-		-		-		-		-		-		2		4.664							
FY 2011		-		-		-		-		-		-		-		-		-		-		1		4.127							
FY 2012		-		-		-		-		-		-		-		-		-		-		1		4.596							
FY 2013		1		4.052		-		-		-		-		-		-		-		-		1		4.385							
FY 2014		0		0.686		2		7.800		-		-		-		-		-		-		2		8.486							
FY 2015		-		-		-		-		-		-		-		-		-		-		-		-							
FY 2016		-		-		-		-		-		-		-		-		-		-		-		-							
FY 2017		-		-		-		-		-		-		-		-		-		-		-		-							
To Complete		-		-		-		-		-		-		-		-		-		-		-		-							
Total		1		4.738		2		7.800		-		-		-		-		-		-		7		26.258							
<b>Installation Schedule</b>																															
	<b>APY</b>	<b>FY 2011</b>				<b>FY 2012</b>				<b>FY 2013</b>				<b>FY 2014</b>				<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>TC</b>	<b>Tot</b>
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		
In	-	1	-	1	-	-	1	-	-	-	-	1	-	-	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	7
Out	-	-	1	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	7

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4226 - Meteorological Equipment

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	25.442	30.278	18.339	-	18.339	20.154	20.831	20.528	20.926	0.000	156.498
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	25.442	30.278	18.339	-	18.339	20.154	20.831	20.528	20.926	0.000	156.498
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	25.442	30.278	18.339	-	18.339	20.154	20.831	20.528	20.926	0.000	156.498

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

Initial Spares (\$ in Millions)	-	0.360	1.237	-	-	-	0.207	-	0.585	0.594	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This item provides new and replacement meteorological equipment for all Navy and Marine Corps Air Stations, all Navy ships, USMC Operational Forces units and other activities required to provide weather observations and provide safety of flight capabilities. The procurement has been thoroughly coordinated with other DOD and civilian agencies. Equipment is funded under the following programs:

[P40A / SP051 Satellite Receiver Upgrades (Space)]: Environmental satellite receivers used to receive and process remotely sensed data from the Defense Meteorological Satellite Program (DMSP) satellites, the National Oceanic and Atmospheric Administration (NOAA) satellites, the Joint Polar-orbiting Satellite System (JPSS) formerly National Polar-orbiting Operational Environmental Satellite System (NPOESS) satellites, the Geostationary Operational Environmental Satellites (GEOSAT), and the GEOSAT Follow-On satellite. The evolutionary upgrades will enhance weather service capabilities to receive and pre-process additional environmental satellite data, comply with open systems architecture standards, and provide for antenna and processor replacement. Specifically, in the remote sensing efforts, integration of next generation of polar orbiting satellite families and new sensors of opportunity are incorporated in hardware design and software development into existing systems. The major FY13 initiatives include the procurement and installation of the AN/SMQ-11 and AN/FMQ-17 environmental satellite receiver, processor, antenna and pedestal upgrades on selected platforms.

[P40A / SP200 Hazardous Weather Detection & Display Capability (HWDDC)]: The HWDDC is a Weather Radar Through-the-Sensor (WRTTS) technology that provides near real-time severe weather information (thunderstorms, high winds, turbulence, etc.) to ship personnel. HWDDC is a key safety of aviation and navigation enabler and also supports efficient planning and execution of aircraft and small boat launch/recovery operations. The HWDDC technology will be integrated into the AN/SPS-48E, & the next generation AN/SPS-48G, three-dimensional (3D) FRESCAN (Frequency Scan) air search and weapons control radar.

[P40A / SP350 USMC Meteorological Mobile Facility (Replacement) Next Generation (METMF(R)NEXGEN)]: Production of the Next Generation, portable, armored METMF(R) with a modular, scalable, fully integrated, network-centric, system capable of automatic data acquisition from secure and unsecured communications channels providing METOC data, mesoscale modeling, meteorological satellite, meteorological doppler radar, upper air observation, local and remote meteorological sensors. The USMC Meteorological Mobile Facility (Replacement) METMF(R) NEXGEN is equipped to enhance Marine Air-Ground Task Force (MAGTF) operational capability world wide and requires increased mobility and tactical flexibility to support the MAGTF and combatant commander battlespace sensing strategy.

[P40A / SP400 METOC Satellite Data Exploitation Readiness]: Readiness for planned next-generation polar-orbiting and geostationary satellites will require the procurement and installation of software and hardware products necessary to accommodate the significantly increased data stream from advanced instruments as compared with the current Defense Meteorological Satellite Program, Polar-orbiting Operational Environmental Satellite, and geostationary satellites. The Navy Production Centers at Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA, and the Naval Oceanographic Office (NAVOCEANO), Stennis Space Center, MS, will require upgrades of their Storage Area Networks and increased processing capability for their assimilation, analysis and forecasting systems. Processing upgrades to existing tactical receivers are also required to extend their life and to receive and process the downlinks from the new satellites.

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4226 - Meteorological Equipment

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

[P40A / SP550 METOC SASC Upgrades]: Procurement of Government Off-The-Shelf/Commercial Off-The-Shelf hardware, and associated software, upgrades for the 69 fielded Automated Surface Observing Systems (ASOS) and the 9 fielded Supplemental Weather Radars (SWR). Both atmospheric sensing systems are essential for aviation safety, Naval Aviation operations and resource protection. ASOS procurements under this project will provide required system upgrades as required by the National Weather Service Interagency Agreement.

[P40A / SP600 Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV)]: Procures Unmanned Undersea Vehicle ocean sensor systems. These include powered, short duration (~days) Autonomous Undersea Vehicles (AUV) and long duration (~months) buoyancy driven Ocean Gliders which carry sensors that characterize the ocean bottom (bathymetry, imagery, sediments, etc.) and measure ocean volume parameters (conductivity, temperature, depth, optics, currents, etc.). These vehicles are preprogrammed with mission profiles and once launched are totally autonomous.

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Meteorological Equipment (See enclosed P-40A)	P40A, P5A, P21				0.000			25.442			30.278			18.339			0.000			18.339
<b>Total Gross/Weapon System Cost</b>					-			<b>25.442</b>			<b>30.278</b>			<b>18.339</b>			-			<b>18.339</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**  
The primary focus of the FY 2013 request is the Full Rate of Production (FRP) of the LBS-UUV ocean Gliders and AUVs, the continuation of upgrades to the environmental Satellite Receivers and the METOC SASC family of systems, and the integration of HWDDC into the AN/SPS-48E & AN/SPS-48G systems.

OCO: In FY 2012, four METMF(R) NEXGEN systems are required to replace four combat worn and technically obsolete METMF(R) systems.

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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy															Date: February 2012				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3					P-1 Line Item Nomenclature: 4226 - Meteorological Equipment					Aggregated Item Name: Meteorological Equipment									
Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>1) SP051 Satellite Receiver Upgrades (Space)</b>																			
† 1.1) AN/FMQ-17 Satellite Receiver Upgrade Kit	A	-	-	-	-	-	-	67.000	3	0.201	69.000	3	0.207	-	-	-	69.000	3	0.207
† 1.2) AN/SMQ-11 Satellite Receiver Upgrade Kit	A	-	-	-	-	-	-	50.000	11	0.550	51.000	10	0.510	-	-	-	51.000	10	0.510
† 1.3) AN/FMQ-17 Antenna Positioner Upgrade Kit	A	-	-	-	-	-	-	-	-	-	234.000	1	0.234	-	-	-	234.000	1	0.234
† 1.4) AN/SMQ-11 Antenna Pedestal Upgrade Kit	A	-	-	-	228.000	1	0.228	228.000	2	0.456	234.000	1	0.234	-	-	-	234.000	1	0.234
1.5) Equipment Nonrecurring	A	-	-	-	-	-	0.548	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal 1) SP051 Satellite Receiver Upgrades (Space)				0.000			0.776			1.207			1.185			0.000			1.185
<b>2) SP200 Hazardous Weather Detection &amp; Display Capability (HWDDC)</b>																			
† 2.1) SPS-48E Variant	B	-	-	-	-	-	-	-	-	-	135.500	4	0.542	-	-	-	135.500	4	0.542
† 2.2) SPS-48G Variant	B	-	-	-	-	-	-	-	-	-	271.000	3	0.813	-	-	-	271.000	3	0.813
Subtotal 2) SP200 Hazardous Weather Detection & Display Capability (HWDDC)				0.000			0.000			0.000			1.355			0.000			1.355
<b>3) SP350 USMC Meteorological Mobile Facility (Replacement) Next Generation (METMF(R)NEXGEN)</b>																			
† 3.1) USMC Meteorological Mobile Facility (Replacement) Next Generation (METMF(R)NEXGEN)	A	-	-	-	2,525.000	4	10.100	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal 3) SP350 USMC Meteorological Mobile Facility (Replacement)				0.000			10.100			0.000			0.000			0.000			0.000

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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy														Date: February 2012					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3					P-1 Line Item Nomenclature: 4226 - Meteorological Equipment									Aggregated Item Name: Meteorological Equipment					
Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Next Generation (METMF(R)NEXGEN)</i>																			
<b>4) SP400 METOC Satellite Data Exploitation Readiness</b>																			
4.1) METOC Satellite Data Exploitation Readiness	A	-	-	-	2,076.500	2	4.153	1,919.500	2	3.839	571.000	2	1.142	-	-	-	571.000	2	1.142
<i>Subtotal 4) SP400 METOC Satellite Data Exploitation Readiness</i>				0.000			4.153			3.839			1.142			0.000			1.142
<b>5) SP550 METOC SASC Upgrades</b>																			
† 5.1) METOC SASC Upgrades	A	-	-	-	146.230	30	4.387	-	-	-	-	-	-	-	-	-	-	-	-
† 5.2) ASOS Upgrades <sup>(1)</sup>	A	-	-	-	-	-	-	41.510	61	2.532	44.870	67	3.006	-	-	-	44.870	67	3.006
† 5.3) SWR Upgrades <sup>(2)</sup>	A	-	-	-	-	-	-	37.400	15	0.561	80.000	3	0.240	-	-	-	80.000	3	0.240
<i>Subtotal 5) SP550 METOC SASC Upgrades</i>				0.000			4.387			3.093			3.246			0.000			3.246
<b>6) SP600 Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV)</b>																			
† 6.1) Littoral Battlespace Sensors - Gliders (LBS-G)	A	-	-	-	137.000	35	4.795	145.000	35	5.075	150.000	35	5.250	-	-	-	150.000	35	5.250
† 6.2) Littoral Battlespace Sensors - Autonomous Undersea Vehicles (LBS-AUV)	B	-	-	-	-	-	-	2,405.000	2	4.810	2,405.000	2	4.810	-	-	-	2,405.000	2	4.810
† 6.3) METMF(R)NEXGEN OCO	A	-	-	-	-	-	-	2,525.000	4	10.100	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) SP600 Littoral Battlespace Sensors - Unmanned</i>				0.000			4.795			19.985			10.060			0.000			10.060

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4226 - Meteorological Equipment **Aggregated Item Name:** Meteorological Equipment

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Undersea Vehicles (LBS-UUV)</i>																			
<b>7) SP555 Production Support</b>																			
7.1) Satellite Receiver Upgrades	A	-	-	-	-	-	-	-	-	0.064	-	-	0.072	-	-	-	-	-	0.072
7.2) LBS-UUV	A	-	-	-	-	-	0.161	-	-	0.698	-	-	0.366	-	-	-	-	-	0.366
7.3) METMF(R)NEXGEN	A	-	-	-	-	-	0.989	-	-	-	-	-	-	-	-	-	-	-	-
7.4) OCO (METMF(R)NEXGEN)	A	-	-	-	-	-	-	-	-	0.700	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) SP555 Production Support</i>				0.000			1.150			1.462			0.438			0.000			0.438
<b>8) SP776 Non-FMP</b>																			
8.1) Satellite Receiver Upgrades	A	-	-	-	-	-	-	-	-	0.338	-	-	0.305	-	-	-	-	-	0.305
<i>Subtotal 8) SP776 Non-FMP</i>				0.000			0.000			0.338			0.305			0.000			0.305
<b>9) SP777 FMP</b>																			
9.1) Satellite Receiver Upgrades	A	-	-	-	-	-	0.081	-	-	0.354	-	-	0.363	-	-	-	-	-	0.363
9.2) HWDDC	A	-	-	-	-	-	-	-	-	-	-	-	0.245	-	-	-	-	-	0.245
<i>Subtotal 9) SP777 FMP</i>				0.000			0.081			0.354			0.608			0.000			0.608
<b>Total</b>				<b>0.000</b>			<b>25.442</b>			<b>30.278</b>			<b>18.339</b>			<b>0.000</b>			<b>18.339</b>

**Remarks:**

[SP051 Satellite Receiver Upgrades (Space)] Quantities represent the number of sites/platforms upgraded annually.

[SP400 METOC Satellite Data Exploitation Readiness] Quantities represent upgrades to the super computers at the 2 METOC Production Centers (the Fleet Numerical Meteorology and Oceanography Center (FNMOC) and the Naval Oceanographic Office (NAVOCEANO)). Upgrades consist of data processing and communications hardware and vary annually depending on the launch of various Navy, joint, interagency, and international METOC satellite systems. The decrease in unit cost from FY 2012 to FY 2013 reflects the need for less data processing and communications hardware after the FY 2012 launch of the National Polar-orbiting Operational Satellite System (NPOESS) Preparatory Project (NPP) satellite.

Unit costs represent the average unit cost of each planned Hardware/Software procurement or refresh which varies based on subsystem, site or platform.

[SP550 METOC SASC Upgrades] Quantities represent the number of sites upgraded annually. Upgrades are GOTS/COTS hardware and associated software for installed systems such as Next Generation Radar, Automated Surface Observing System (ASOS) and the Supplemental Weather Radar (SWR). These varying quantities account for the unit cost variation.

Unit costs represent the average unit cost of each planned Hardware/Software procurement or refresh which varies based on subsystem, site or platform.

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2013 Navy	<b>Date:</b> February 2012
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4226 - Meteorological Equipment	<b>Aggregated Item Name:</b> Meteorological Equipment
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<sup>(1)</sup>ASOS Upgrades - FY 2012 quantities represent 40 Enhanced Precipitation Identification (EPI) sensors and 21 data Acquisition Control Units (ACU). FY 2013 quantities represent 30 EPIs, 22 ACUs & 15 ACU Phase 1 replacements. These varying quantities account for the unit cost variation.

Unit costs represent the average unit cost of each planned Hardware/Software procurement or refresh which varies based on subsystem, site or platform.

<sup>(2)</sup>SWR Upgrades - FY 2012 quantities represent 15 SWR Workstation II's (9 complete Workstation II kits and 6 Workstation II Central Processing Unit (CPU) upgrades). FY 2013 quantities represent 3 SWR Workstation II CPU upgrades. These varying quantities account for the unit cost variation.

Unit costs represent the average unit cost of each planned Hardware/Software procurement or refresh which varies based on subsystem, site or platform.



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Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Navy										Date: February 2012		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3				P-1 Line Item Nomenclature: 4226 - Meteorological Equipment						Aggregated Item Name: Meteorological Equipment		
Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) SP051 Satellite Receiver Upgrades (Space)</b>												
1.1) AN/FMQ-17 Satellite Receiver Upgrade Kit		2012	Unknown / Unknown	C / FP	SPAWAR	Mar 2012	Jul 2012	3	67.000	Y		Jun 2011
1.1) AN/FMQ-17 Satellite Receiver Upgrade Kit		2013	Unknown / Unknown	C / FP	SPAWAR	Dec 2012	Apr 2013	3	69.000	Y		Jun 2011
1.2) AN/SMQ-11 Satellite Receiver Upgrade Kit		2012	Unknown / Unknown	C / FP	SPAWAR	Mar 2012	Jul 2012	11	50.000	Y		Jun 2011
1.2) AN/SMQ-11 Satellite Receiver Upgrade Kit		2013	Unknown / Unknown	C / FP	SPAWAR	Dec 2012	Apr 2013	10	51.000	Y		Jun 2011
1.3) AN/FMQ-17 Antenna Positioner Upgrade Kit		2013	Unknown / Unknown	C / FP	SPAWAR	Dec 2012	Apr 2013	1	234.000	Y		Jun 2011
1.4) AN/SMQ-11 Antenna Pedestal Upgrade Kit		2011	Unknown / Unknown	C / FP	SPAWAR	Mar 2012	Jul 2012	1	228.000	Y		Jun 2011
1.4) AN/SMQ-11 Antenna Pedestal Upgrade Kit		2012	Unknown / Unknown	C / FP	SPAWAR	Mar 2012	Jul 2012	2	228.000	Y		Jun 2011
1.4) AN/SMQ-11 Antenna Pedestal Upgrade Kit		2013	Unknown / Unknown	C / FP	SPAWAR	Dec 2012	Apr 2013	1	234.000	Y		Jun 2011
<b>2) SP200 Hazardous Weather Detection &amp; Display Capability (HWDDC)</b>												
2.1) SPS-48E Variant		2013	Unknown / Unknown	C / TBD	SSC PAC	Dec 2012	Feb 2013	4	135.500	Y		Feb 2009
2.2) SPS-48G Variant		2013	Unknown / Unknown	C / TBD	SSC PAC	Dec 2012	Feb 2013	3	271.000	N		Feb 2009
<b>3) SP350 USMC Meteorological Mobile Facility (Replacement) Next Generation (METMF(R)NEXGEN)</b>												
†3.1) USMC Meteorological Mobile Facility (Replacement) Next Generation (METMF(R)NEXGEN)		2011	Smiths Detection / MD	C / FPIF	SPAWAR	Dec 2011	Sep 2012	4	2,525.000	Y		May 2011
<b>5) SP550 METOC SASC Upgrades</b>												
5.1) METOC SASC Upgrades <sup>(3)</sup>		2011	VARIOUS / VARIOUS	C / FP	SSC LANT	Oct 2010	Oct 2010	30	146.230	Y		
5.2) ASOS Upgrades		2012	National Weather Service (NWS) / MD	MIPR	NWS	Oct 2011	Jan 2012	61	41.510	Y		
5.2) ASOS Upgrades		2013	National Weather Service (NWS) / MD	MIPR	NWS	Oct 2012	Jan 2013	67	44.870	Y		
5.3) SWR Upgrades		2012	Enterprise Electronics Corp. / AL	C / FP	SSC LANT	Oct 2011	Dec 2011	15	37.400	Y		Nov 2010
5.3) SWR Upgrades		2013	Enterprise Electronics Corp. / AL	C / TBD	SSC LANT	Oct 2012	Dec 2012	3	80.000	Y		Nov 2010

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Navy **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4226 - Meteorological Equipment	<b>Aggregated Item Name:</b> Meteorological Equipment
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$ K)</small>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>6) SP600 Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV)</b>												
†6.1) Littoral Battlespace Sensors - Gliders (LBS-G)		2011	Teledyne Brown Eng. / AL	C / FPIF	SPAWAR	Jul 2011	Oct 2011	35	137.000	Y		Apr 2008
†6.1) Littoral Battlespace Sensors - Gliders (LBS-G)		2012	Teledyne Brown Eng. / AL	C / FPIF	SPAWAR	Oct 2011	Jan 2012	35	145.000	Y		Apr 2008
†6.1) Littoral Battlespace Sensors - Gliders (LBS-G)		2013	Teledyne Brown Eng. / AL	C / TBD	SPAWAR	Oct 2012	Jan 2013	35	150.000	Y		Apr 2008
†6.2) Littoral Battlespace Sensors - Autonomous Undersea Vehicles (LBS-AUV)		2012	Hydroid, Inc. / MA	C / TBD	SPAWAR	May 2012	Nov 2012	2	2,405.000	Y		Oct 2009
†6.2) Littoral Battlespace Sensors - Autonomous Undersea Vehicles (LBS-AUV)		2013	Hydroid, Inc. / MA	C / TBD	SPAWAR	May 2013	Nov 2013	2	2,405.000	Y		Oct 2009
†6.3) METMF(R)NEXGEN OCO	✓	2012	Unknown / Unknown	C / FPIF	SPAWAR	May 2012	Jun 2013	4	2,525.000	Y		May 2011

**Remarks:**

<sup>(3)</sup>"Contractor and Location" and "Contract Method & Type" are various ("Var") because the differing components required for each system/subsystem upgrade are supplied by multiple commercial vendors and integrated into each system/subsystem by the SPAWAR System Centers (Pacific and Atlantic).

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**Exhibit P-21, Budget Production Schedule: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4226 - Meteorological Equipment **Aggregated Item Name:** Meteorological Equipment

COST ELEMENTS Units in Each						Fiscal Year 2012													Fiscal Year 2013												
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2012													Calendar Year 2013											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
3) SP350 USMC Meteorological Mobile Facility (Replacement) Next Generation (METMF(R)NEXGEN)																															
3.1) USMC Meteorological Mobile Facility (Replacement) Next Generation (METMF(R)NEXGEN)																															
	9	2011	NAVY	4	0	4	-	-	A -	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1						
6) SP600 Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV)																															
6.1) Littoral Battlespace Sensors - Gliders (LBS-G)																															
	10	2011	NAVY	35	0	35	5	5	5	5	5	5	5																		
	10	2012	NAVY	35	0	35	A -	-	-	5	5	5	5	5	5	5															
	10	2013	NAVY	35	0	35	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	5	5	5	5	5	5	5				
6.2) Littoral Battlespace Sensors - Autonomous Undersea Vehicles (LBS-AUV)																															
	11	2012	NAVY	2	0	2	-	-	-	-	-	-	-	A -	-	-	-	-	-	1	1										
	11	2013	NAVY	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	2			
6.3) METMF(R)NEXGEN OCO																															
✓	12	2012	NAVY	4	0	4	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	1	2			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Budget Production Schedule: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4226 - Meteorological Equipment **Aggregated Item Name:** Meteorological Equipment

COST ELEMENTS Units in Each							Fiscal Year 2014										Fiscal Year 2015													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
3) SP350 USMC Meteorological Mobile Facility (Replacement) Next Generation (METMF(R)NEXGEN)																														
3.1) USMC Meteorological Mobile Facility (Replacement) Next Generation (METMF(R)NEXGEN)																														
	9	2011	NAVY	4	4	0																								
6) SP600 Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV)																														
6.1) Littoral Battlespace Sensors - Gliders (LBS-G)																														
	10	2011	NAVY	35	35	0																								
	10	2012	NAVY	35	35	0																								
	10	2013	NAVY	35	35	0																								
6.2) Littoral Battlespace Sensors - Autonomous Undersea Vehicles (LBS-AUV)																														
	11	2012	NAVY	2	2	0																								
	11	2013	NAVY	2	0	2	-	1	1																					
6.3) METMF(R)NEXGEN OCO																														
✓	12	2012	NAVY	4	2	2	1	-	1																					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4226 - Meteorological Equipment	<b>Aggregated Item Name:</b> Meteorological Equipment

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Smiths Detection - MD	0	0	0	0	0	9	9	0	0	9	9
2	Teledyne Brown Eng. - AL	0	0	0	0	0	3	3	0	0	3	3
3	Hydroid, Inc. - MA	0	0	0	0	7	6	13	0	7	6	13
4	Unknown - Unknown	0	0	0	0	0	13	13	0	0	13	13

**Remarks:**  
 ‡ Delivery rows marked with the ♦ symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

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**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
 4242 - DCRS/DPL

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	89.805	1.565	1.595	1.414	-	1.414	1.432	1.458	1.487	1.518	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	89.805	1.565	1.595	1.414	-	1.414	1.432	1.458	1.487	1.518	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	89.805	1.565	1.595	1.414	-	1.414	1.432	1.458	1.487	1.518	Continuing	Continuing

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

Initial Spares (\$ in Millions)	-	0.236	0.027	-	-	-	-	-	-	-	0.000	0.263
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Digital Camera Receiving Station/Digital Photo Lab (DCRS/DPL) The Naval Air Systems Command (NAVAIR) is tasked to support digital imagery shipboard photographic requirements (Chief of Naval Operations (CNO) Memo Ser 09B/2U2501983 of 23 Oct 92 applies). Both systems are supported by the Other Procurement, Navy (OPN) funding line through FY12. In FY13, the DPL will transition to the Naval Sea Systems Command (NAVSEA).

The DCRS is a combat system located in the Carrier Intelligence Center (CVIC) that processes classified Bomb Hit Assessment (BHA) and target imagery. DCRS supports near real-time over-the-horizon imagery transfer, as well as post-mission playback of imagery obtained from aircraft sensors. DCRS is a one rack system with a multiple PC workstation for video editing and playback, media receptacles for aircraft data transfer devices, and communications equipment to support Fast Tactical Imagery (FTI). Equipment and software are updated through field change installations scheduled every three years for each Carrier Vessel/Carrier Vessel Nuclear (CV/CVN).

The DPL is an unclassified system that processes visual information for incidents and accidents at sea, shipboard investigations, medical records, combat camera, safety, training, and Public Affairs Office (PAO) functions. The DPL produces visual information documentation of real world events (e.g. drug interdiction programs, humanitarian relief efforts, shipboard and flight operations) that is eventually viewed by the CNO, Secretary of the Navy (SECNAV), Joint Chiefs of Staff (JCS), National Military Command Center, and the White House. Digital imagery can be quickly disseminated via shipboard communication systems to support decision makers at all levels. DPL Phase I equipment installations are complete. In accordance with requirements set forth in Commander In Chief, Atlantic Command (CINCLANT) MSG DTG 051820Z Apr 00, the current supported DPL configuration is versioned as V2X (DPL Phase II) and consists of the following components: two hard mounted racks for Personal Computer (PC) workstations and media receptacles, a rack for two scanners and two photo quality printers, a separate large format printer, a separate high speed laser printer, and a photo Local Area Network (LAN) that networks all of these components. The DPL also provides two high quality digital cameras to the ship. Equipment and software are updated through field change installations scheduled every three years for each CV/CVN.

FY11 - Continue to support equipment and software updates through field change installations as scheduled on various CV/CVN for DCRS and DPL.

FY12 - Continue to support equipment and software updates through field change installations as scheduled on various CV/CVN for DCRS and DPL.

FY13 - Support equipment and software updates through tech refresh installations as scheduled on various CV/CVN for DCRS and DPL.

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment	<b>P-1 Line Item Nomenclature:</b> 4242 - DCRS/DPL
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
---	---	--

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
DCRS/DPL (See enclosed P-40A)	P40A				89.805			1.565			1.595			1.414			0.000			1.414
<b>Total Gross/Weapon System Cost</b>					<b>89.805</b>			<b>1.565</b>			<b>1.595</b>			<b>1.414</b>			<b>-</b>			<b>1.414</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**



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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4242 - DCRS/DPL **Aggregated Item Name:** DCRS/DPL

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) DCRS/DPL</b>																			
1) SX020 Digital Photo Lab Workcenter	A	-	-	9.072	142,330.00	3	0.427	142,000.00	3	0.426	132,670.00	3	0.398	-	-	-	132,670.00	3	0.398
2) SX021 Digital SLR Color Camera	A	-	-	2.625	5,200.00	10	0.052	5,300.00	10	0.053	-	-	-	-	-	-	-	-	-
3) SX100 Digital Camera Receiving Station <sup>(1)</sup>	A	-	-	9.329	173,333.33	3	0.520	180,000.00	3	0.540	161,333.33	3	0.484	-	-	-	161,333.33	3	0.484
4) DPL Other Costs	A	-	-	30.951	-	-	0.255	-	-	0.259	-	-	0.239	-	-	-	-	-	0.239
5) DCRS Other Costs	A	-	-	37.828	-	-	0.311	-	-	0.317	-	-	0.293	-	-	-	-	-	0.293
<i>Subtotal 1) DCRS/DPL</i>				<i>89.805</i>			<i>1.565</i>			<i>1.595</i>			<i>1.414</i>			<i>0.000</i>			<i>1.414</i>
<b>Total</b>				<b>89.805</b>			<b>1.565</b>			<b>1.595</b>			<b>1.414</b>			<b>0.000</b>			<b>1.414</b>

**Remarks:**  
<sup>(1)</sup>Starting in FY2013, funds will procure tech refresh items; prior fiscal years procures field change systems.

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**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
 4244 - Aviation Life Support

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	182.439	34.685	74.919	40.475	-	40.475	32.434	32.239	35.329	37.306	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	182.439	34.685	74.919	40.475	-	40.475	32.434	32.239	35.329	37.306	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	182.439	34.685	74.919	40.475	-	40.475	32.434	32.239	35.329	37.306	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	0.593	-	-	-	-	-	-	-	-	0.000	0.593
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This account provides for the acquisition, upgrade, and production support of aviation life support systems required for the personal safety and protection of aircrew against the hazards encountered in the aircraft operating environment and for safe recovery of downed aircrew.

Note: Elements of Cost that are not currently funded in the FYDP are no longer included in the "Prior Year" column.

[P40A / CSEL]: COMBAT SURVIVOR EVADER LOCATOR - SY060 (Baseline and FY11 OCO)

CSEL has been designated as an ACAT III Joint Service Program with the USAF as lead service. The CSEL Radio system provides U.S. combat forces with secure, encrypted, low probability of exploitation, two-way, over the horizon, near real time databurst communications with integral precise geopositioning; and non-secure, unencrypted line-of-sight voice and beacon capability to support survival, evasion, and personnel recovery operations. The user segment of the CSEL system is composed of a battery operated Hand Held Radio (HHR) (AN/PRQ-7), a Radio Set Adapter (J-6431/PRQ-7), a Global Positioning System (GPS) antenna and coupler, and a laptop Central Processing Unit with software for loading the HHR CSEL Planning Computer. FY11 OCO is for procurement of CSEL radios to support Central Command Directive requiring all aircrew have CSEL for combat operations. Increased fielding of CSEL radios will provide 100% coverage of radios to Aviation personnel that currently lack military GPS enabled radios today.

[P40A / Laser Eye Protection]: (LEP) - SY080 (Baseline)

The LEP program is a family of eye protection solutions that will provide Fixed, Rotary Wing and Patrol pilots and aircrew with multiple wavelength fixed threat and hazard protection during day and night unaided and Night Vision Goggle aided missions. LEP will consist of a suite of products to include spectacles, goggles, and visors. The LEP (visor, spectacle or goggle format) is being developed for compatibility with current Army and USN/USMC Aviation Life Support Equipment as well as cockpit displays, night vision, and fire control systems.

[P40A / AN/AVS-9 Image Intensifier]: AN/AVS-9) - SY212 (FY12 OCO)

Interoperability in joint operations mandates the procurement and incorporation of enhanced night vision capabilities. With 70% of flight operations conducted at night, failure to provide USMC aircrew with this mission essential equipment will seriously impact sortie completion rates and aircrew situational awareness.

[P40A / JHMCS Night Vision]: JOINT HELMET MOUNTED CUEING SYSTEM NIGHT VISION SY215 (Baseline)

This system will provide aircraft equipped with the JHMCS the ability to cue and display weapons and sensors at night using a forty degree field of view Night Vision Device (NVD) that integrates the JHMCS cueing and display symbology. The system will be compatible with the current JHMCS helmet and will use the power and data provided by the JHMCS Universal Connector on the helmet. The System includes

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4244 - Aviation Life Support

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

a high resolution image intensifier assembly, a camera to record the pilot's visual scene and display assembly that combines the JHMCS symbology and the scene viewed through the NVD. It also has an objective lens with a leaky green filter that enables the fixed wing pilot to view the head-up display while wearing the system. The system is fully adjustable by the operator and is detachable from the helmet.

[P40A / Flight Deck Cranial]: FLIGHT DECK CRANIAL w/ HEARING PROTECTION - SY505 (Baseline)  
The Flight Deck Cranial Program was divided into two increments by the Milestone Decision Authority. Increment 1 will provide improved Double Hearing Protection headset assemblies that will be integrated into the current legacy cranial. Communication versions will interface with existing and planned flight deck communications systems and F/A-18 Intercom System. Increment 1 Milestone C (MS C) was successfully conducted on 27 Apr 2011. Increment 2 will provide a lightweight head protection device that incorporates advancements in hearing protection, speech intelligibility, impact protection and is compatible with Night Vision Devices, Chemical Biological Radiological clothing, and necessary eye protection. These products will greatly improve the level of hearing protection available to maintainers and aircraft handlers. MS C was completed for increment one in May 2011 and increment two will be completed October 2012.

[P40A / AR-5 NDI Respirators]: AR-5 NON-DEVELOPMENTAL ITEMS (NDI) PROGRAM - SY090 (Baseline & FY 12 OCO)  
This program is to re-procure aircrew Chemical Biological Radiological (CBR) protective systems, support equipment, and protective garments which provide all USN/USMC aircrewmembers the necessary head-eye-respiratory protection during inflight operations. Head-eye-respiratory protection is provided by a hood-mask assembly that precludes the wearer from contact with the CBR agent and provides filtered breathing air. In order to have complete protection, the aircrew must also wear a below-the-neck CBR protective clothing ensemble. This re-procurement is required due to the slip in the Joint Service Air Mask program which is planned to replace the legacy mask inventory. FY 11 funded the Engineering Change Proposal of the AR-5 integration and obsolescence. FY12 OCO procures 908 NDI Respirators.

[P40A / Aircrew Endurance]: AIRCREW ENDURANCE (AE) - SY125 (Baseline)  
AE is an Abbreviated Acquisition Program. The program is comprised of many components designed to improve endurance in flights of longer duration. Systems include survival vests and body armor design, sizing, compatibility, durability and color improvements; hydration systems; mission extender devices to address physical waste needs; and improved universal camouflage to the Marine Corps coyote color schemes. These improvements will address issues associated with heat stress, physical fatigue, safety and loss of mobility on long duration missions.

[P40A / V-22 Oxygen Test Sets ]: SY176 (FY12 OCO)  
V-22 Oxygen Concentrator Test Set is required to test the concentration of oxygen generated by the V-22 Onboard Oxygen Generating System. The Aviation Oxygen System team utilizes the test set to perform all Engineering Investigations on Fleet V-22 concentrators included but not limited to verification of concentrator improvements proposed by the manufacturer, concentrator reliability data development/ verification, fleet troubleshooting assistance and training of fleet personnel. Current assets are pulled from the support team and deployed in support of Operation Enduring Freedom. This one-time procurement will replace the deployed assets allowing for continued support of V-22 aircraft deployed and domestic.

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware (See enclosed P-40A)	P40A, P5A, P21				182.439			34.685			74.919			40.475			0.000			40.475
<b>Total Gross/Weapon System Cost</b>					<b>182.439</b>			<b>34.685</b>			<b>74.919</b>			<b>40.475</b>			<b>-</b>			<b>40.475</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4244 - Aviation Life Support **Aggregated Item Name:** Hardware

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) Survival Electronics</b>																			
† 1.1) CSEL <sup>(1)</sup>	A	-	-	69.947	9,160.00	1,216	11.135	7,700.00	50	0.385	7,840.00	50	0.392	-	-	-	7,840.00	50	0.392
<i>Subtotal 1) Survival Electronics</i>				69.947			11.135			0.385			0.392			0.000			0.392
<b>2) Helmets, Hearing and Display</b>																			
† 2.1) Laser Eye Protection <sup>(2)</sup>	A	-	-	-	-	-	-	5,410.00	32	0.173	3,810.00	305	1.161	-	-	-	3,810.00	305	1.161
† 2.2) AN/AVS-9 Image Intensifier <sup>(3)</sup>	A	-	-	4.290	-	-	-	14,000.00	232	3.248	-	-	-	-	-	-	-	-	-
† 2.3) JHMCS Night Vision <sup>(4)</sup>	A	-	-	21.793	351,400.00	5	1.757	288,850.00	71	20.508	234,580.00	80	18.766	-	-	-	234,580.00	80	18.766
† 2.4) Flight Deck Cranial <sup>(5)</sup>	A	-	-	5.111	586.24	9,839	5.768	2,862.98	2,279	6.524	3,830.78	1,956	7.493	-	-	-	3,830.78	1,956	7.493
<i>Subtotal 2) Helmets, Hearing and Display</i>				31.194			7.525			30.453			27.420			0.000			27.420
<b>3) Life Support Systems</b>																			
† 3.1) AR-5 NDI Respirators <sup>(6)</sup>	A	-	-	-	10,700.00	120	1.284	10,855.81	1,935	21.006	-	-	-	-	-	-	-	-	-
† 3.2) Aircrew Endurance <sup>(7)</sup>	A	-	-	9.063	1,950.00	1,184	2.309	2,220.00	3,780	8.392	3,170.00	1,790	5.669	-	-	-	3,170.00	1,790	5.669
† 3.3) V-22 Oxygen Test Sets	A	-	-	-	-	-	-	495,000.00	1	0.495	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) Life Support Systems</i>				9.063			3.593			29.893			5.669			0.000			5.669
<b>4) Production Support</b>																			
4.1) Survival Electronics	A	-	-	43.018	-	-	3.041	-	-	0.497	-	-	0.183	-	-	-	-	-	0.183
4.2) Helmets, Hearing and Displays	A	-	-	13.874	-	-	7.561	-	-	9.632	-	-	5.537	-	-	-	-	-	5.537
4.3) Life Support Systems	A	-	-	15.343	-	-	1.830	-	-	4.059	-	-	1.274	-	-	-	-	-	1.274
<i>Subtotal 4) Production Support</i>				72.235			12.432			14.188			6.994			0.000			6.994
<b>Total</b>				<b>182.439</b>			<b>34.685</b>			<b>74.919</b>			<b>40.475</b>			<b>0.000</b>			<b>40.475</b>

**Remarks:**

(1)FY 11 CSEL include OCO for 1,122 radios and baseline funding for 94. FY11 Congressional mark (\$16M) in CSEL decreased quantity.

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4244 - Aviation Life Support	<b>Aggregated Item Name:</b> Hardware
<p>(2) Fluctuation in unit costs relative to Cost Codes SY080, SY090, SY215, SY505 are due to contractor range pricing and procurement of multiple piece parts.</p> <p>(3) FY12 AN/ANS-9 Image Intensifier is OCO funding for 232 Night Vision Googles.</p> <p>(4) FY11 Congressional mark(\$15.9M)in JHMCS decreased quantities. Fluctuation in unit costs are due to contractor range pricing and procurement of multiple piece parts.</p> <p>(5) Fluctuation in unit costs relative to Cost Codes are due to contractor range pricing and procurement of multiple piece parts. FY10-12 funding to support production of Double Hearing Protection (DHP) passive and communications hardware. FY10-12 Unit cost and quantities vary depending on mix of DHP passive and communication hardware components being purchased FY13 funding supports production of Triple Hearing Protection (THP) and cranial procurements; potentialy from new vendors.</p> <p>(6) Fluctuation in unit costs relative are due to contractor range pricing and procurement of multiple piece parts. AR-5 NDI Respirators will include the purchase of consumable items used in conjunction with the respirators (e.g. batteries, below the neck protection).</p> <p>(7) Aircrew Endurance is a multi-commodity line that encompasses different products. Multiple products may be procured each fiscal year.</p>		

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**Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4244 - Aviation Life Support **Aggregated Item Name:** Hardware

Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) Survival Electronics</b>												
1.1) CSEL		2011	Boeing / Anaheim, CA	SS / FFP	NAVAIR	Jun 2011	Nov 2011	1,216	9,160.00	Y		Oct 2010
1.1) CSEL		2012	Boeing / Anaheim, CA	SS / FFP	NAVAIR	Mar 2012	Feb 2013	50	7,700.00	Y		Oct 2011
1.1) CSEL		2013	Boeing / Anaheim, CA	SS / FFP	NAVAIR	Mar 2013	Feb 2014	50	7,840.00	Y		Oct 2011
<b>2) Helmets, Hearing and Display</b>												
2.1) Laser Eye Protection		2012	TBD / TBD	C / TBD	NAVAIR	Jul 2012	Apr 2013	32	5,410.00	N	Jul 2012	Mar 2012
2.1) Laser Eye Protection		2013	TBD / TBD	C / TBD	NAVAIR	Jul 2013	Sep 2013	305	3,810.00	N	Jul 2013	Mar 2012
2.2) AN/AVS-9 Image Intensifier	✓	2012	ITT Night Vision / Roanoke, VA	C / TBD	NSWC Crane	Mar 2012	Sep 2012	232	14,000.00	Y		Oct 2009
†2.3) JHMCS Night Vision		2011	Vision Systems Intl / San Jose, CA	SS / FFP	JPO Wright Patterson AFB	Mar 2012	Oct 2012	5	351,400.00	N	Apr 2012	Apr 2010
†2.3) JHMCS Night Vision		2012	Vision Systems Intl / San Jose, CA	SS / FFP	JPO Wright Patterson AFB	May 2012	Dec 2012	71	288,850.00	N	Apr 2012	May 2011
†2.3) JHMCS Night Vision		2013	Vision Systems Intl / San Jose, CA	SS / FFP	JPO Wright Patterson AFB	Dec 2012	Sep 2013	80	234,580.00	N	Apr 2012	May 2012
†2.4) Flight Deck Cranial		2011	Aegisound LLC / Blacksburg, VA	SS / FFP	NAWCADLKE	Aug 2011	Jan 2012	9,839	586.24	N		Jun 2011
†2.4) Flight Deck Cranial		2012	Aegisound LLC / Blacksburg, VA	SS / FFP	NAWCADLKE	Jan 2012	Oct 2012	2,279	2,862.98	N		Jun 2011
†2.4) Flight Deck Cranial		2013	Aegisound LLC / Blacksburg, VA	SS / FFP	NAWCADLKE	Jan 2013	Jul 2013	1,956	3,830.78	N		Jun 2011
<b>3) Life Support Systems</b>												
3.1) AR-5 NDI Respirators		2011	Camlock LTD / Aldershot, UK	SS / FFP	NAVAIR	Sep 2011	Jan 2012	120	10,700.00	Y		Sep 2010
3.1) AR-5 NDI Respirators		2012	Camlock LTD / Aldershot, UK	SS / FFP	NAVAIR	Dec 2011	Apr 2012	1,027	10,855.89	Y		Nov 2010
3.1) AR-5 NDI Respirators	✓	2012	Camlock LTD / Aldershot, UK	SS / FFP	NAVAIR	Dec 2011	Apr 2012	908	10,860.00	Y		Nov 2010
†3.2) Aircrew Endurance <sup>(8)</sup>		2011	Peckham Vocational Industries / Lansing, MI	SS / FFP	NAVAIR	Sep 2011	Apr 2012	1,184	1,950.00	Y		Jun 2011
†3.2) Aircrew Endurance		2012	Peckham Vocational Industries / Lansing, MI	SS / FFP	NAVAIR	Feb 2012	Nov 2012	3,780	2,220.00	Y		Jun 2011
†3.2) Aircrew Endurance		2013	Peckham Vocational Industries / Lansing, MI	SS / FFP	NAVAIR	Jan 2013	Feb 2014	1,790	3,170.00	Y		Jun 2011
3.3) V-22 Oxygen Test Sets	✓	2012	CLSS / Davenport, IA	SS / FFP	NAVAIR	Mar 2012	Mar 2013	1	495,000.00	Y		Oct 2011

**Remarks:**  
<sup>(8)</sup>The quantities have been changed based upon revised price estimates, currently showing a reduction in unit price for the first two years, and awarding in the last quarter of the fiscal year.

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**Exhibit P-21, Budget Production Schedule: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4244 - Aviation Life Support **Aggregated Item Name:** Hardware

COST ELEMENTS Units in Each							Fiscal Year 2012													Fiscal Year 2013												
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2012													Calendar Year 2013												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
2) Helmets, Hearing and Display																																
2.3) JHMCS Night Vision																																
	13	2011	NAVY (9)	5	0	5	-	-	-	-	-	-	A -	-	-	-	-	-	-	1	1	1	1	1								
	13	2012	NAVY (10)	71	0	71	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	3	4	5	6	6	6	6	7	7	7	14	
	13	2013	NAVY (11)	80	0	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	2	78
2.4) Flight Deck Cranial																																
	14	2011	NAVY (12)	9839	0	9839	-	-	-	1200	1200	1200	1200	1200	1200	1200	1200	239														
	14	2012	NAVY (13)	2279	0	2279	-	-	-	A -	-	-	-	-	-	-	-	-	190	190	190	190	190	190	190	190	190	190	190	189		
	14	2013	NAVY (14)	1956	0	1956	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	163	163	163	1467
3) Life Support Systems																																
3.2) Aircrew Endurance																																
	15	2011	NAVY	1184	0	1184	-	-	-	-	-	-	80	146	150	150	155	144	200	159												
	15	2012	NAVY	3780	0	3780	-	-	-	-	A -	-	-	-	-	-	-	-	-	141	330	330	330	330	330	330	330	332	332	332	333	
	15	2013	NAVY	1790	0	1790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	1790
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		



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**Exhibit P-21, Budget Production Schedule: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4244 - Aviation Life Support **Aggregated Item Name:** Hardware

COST ELEMENTS Units in Each							Fiscal Year 2014										Fiscal Year 2015														
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
2) Helmets, Hearing and Display																															
2.3) JHMCS Night Vision																															
	13	2011	NAVY (9)	5	5	0																									
	13	2012	NAVY (10)	71	57	14	8	6																							
	13	2013	NAVY (11)	80	2	78	8	8	8	8	8	8	8	8	7	7															
2.4) Flight Deck Cranial																															
	14	2011	NAVY (12)	9839	9839	0																									
	14	2012	NAVY (13)	2279	2279	0																									
	14	2013	NAVY (14)	1956	489	1467	163	163	163	163	163	163	163	163	163																
3) Life Support Systems																															
3.2) Aircrew Endurance																															
	15	2011	NAVY	1184	1184	0																									
	15	2012	NAVY	3780	3447	333	333																								
	15	2013	NAVY	1790	0	1790	-	-	-	-	150	150	150	150	150	150	150	150	150	150	140										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4244 - Aviation Life Support	<b>Aggregated Item Name:</b> Hardware

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)								
		MSR	1-8-5	MAX	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Vision Systems Intl - San Jose, CA	20	180	360	0	0	0	0	0	5	3	9	12
2	Aegisound LLC - Blacksburg, VA	400	1200	2000	0	0	0	0	0	1	4	6	10
3	Peckham Vocational Industries - Lansing, MI	300	6000	12000	0	0	0	0	0	2	4	10	14

**Remarks:**  
 ‡ Delivery rows marked with the ♦ symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.  
 (9) TBD = USAF Deliveries  
 (10) TBD = USAF Deliveries  
 (11) TBD = USAF Deliveries  
 (12) Double Hearing Protection  
 (13) Double Hearing Protection  
 (14) Triple Hearing Protection

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**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4248 - Airborne Mine Countermeasures

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	218.575	35.661	33.515	61.552	-	61.552	60.268	41.706	35.373	22.329	0.000	508.979
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	218.575	35.661	33.515	61.552	-	61.552	60.268	41.706	35.373	22.329	0.000	508.979
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	218.575	35.661	33.515	61.552	-	61.552	60.268	41.706	35.373	22.329	0.000	508.979
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	4.349	1.749	2.189	-	2.189	2.049	2.171	0.846	0.325	Continuing	Continuing
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Airborne Mine Countermeasures (AMCM) Equipment is currently used by MH-53E helicopters to counter the threat of sea mines. The MH-60S helicopter will be adapted for the AMCM mission in support of the development of an Organic Fleet AMCM program. The equipment is divided into three categories -- minesweeping, minehunting and mine neutralization. (1) Minesweeping is performed by mechanical or influence sweeps. In mechanical sweeping, the mine mooring is severed by the sweep gear allowing the mine to float to the surface where it is destroyed. In influence sweeping, a magnetic or acoustic field which simulates the magnetic/acoustic signature of a ship is introduced into the water. This field causes the mine mechanism to actuate. (2) In minehunting, the object is to actually locate and classify mine-like objects (usually by means of high resolution sonar). (3) Then neutralize mines using explosive devices. AMCM squadrons currently have mechanical, magnetic, and acoustic sweeping capabilities, and mine surveillance and marking capabilities. Their mission is to locate, classify, identify and neutralize moored, surface and bottom mines.

[P40A / S0020 - MODIFICATION]: S0020 MOD/PROD

Funds provided are for the modification and product improvements of systems to accommodate replacement of subsystems/components because of safety, maintainability, reliability issues and obsolescence. ECPs are analyzed, prioritized and screened to accommodate replacement of subsystems/components. Funding for this effort is designated in all fiscal years.

[P40A / S0061 - MK-105 MOD 4]: S0061 MK-105 MOD 4

The MK-105 MOD 4 magnetic mine-sweeping system is a hydrofoil platform that carries a turbo-generator power pack and is towed by the MH-53E helicopter, allowing for safe, high speed sweeping of coarse magnetic influence mines at twice the output of current capability. The production line was shut down in FY2001. This funding re-starts the production line and manufactures new MK-105 MOD 4 systems.

[P40A / S0065 - UNIT COST - AMNS]: S0065 AMNS

Airborne Mine Neutralization System (AMNS) is an expendable remote controlled neutralizer vehicle deployed from the helicopter platform to reacquire, identify, and neutralize moored or proud bottom sea mines.

Note: For program procurement completeness, the LCS Mission Modules are procured under BLI 1600.

[P40A / S0074- UNIT COST - AQS-20A]: S0074 AN/AQS-20A

AN/AQS-20A includes a sonar for mine detection, classification and identification. The Navy does not possess a capability to conduct high speed minefield reconnaissance to determine mine density and location. The AN/AQS-20A will be procured to address the emergent requirements for mine identification and to integrate AMCM systems with a MH-60S platform and the Remote Mine Hunting System (RMS).

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment	<b>P-1 Line Item Nomenclature:</b> 4248 - Airborne Mine Countermeasures
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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Note: For program procurement completeness, the LCS Mission Modules are procured under BLI 1600.

[P40A / S0075- UNIT COST- ALMDS]: S0075 ALMDS  
 Airborne Laser Mine Detection System (ALMDS), AN/AES-1 is a light detection and ranging (LIDAR) system for rapid detection, classification, and localization of floating and near surface mines. It will be deployed on the MH-60S helicopter as part of the OAMCM suite of systems.

Note: For program procurement completeness, the LCS Mission Modules are procured under BLI 1600.

[P40A / S0076- UNIT COST - OASIS]: S0076 OASIS  
 Organic Airborne and Surface Influence Sweep (OASIS) will provide a self-contained, high speed, multi-function mine sweep capability, towed by the MH-60S helicopter.

Note: For program procurement completeness, the LCS Mission Modules are procured under BLI 1600.

[P40A / S0090 - OAMCM Support Equipment]: S0090 OAMCM SUPPORT EQUIPMENT  
 Organic Airborne Mine Countermeasure (OAMCM) Support Equipment

Organic Reeling Cable Assemblies (ORCA) - Rewind equipment for the towed OAMCM systems (AN-AQS-20A, AMNS, and OASIS).

Common Tow Cable - Airborne Mine Counter Measures (AMCM) Tow Cable connects MH-60S helicopter with the AMCM sensors (ANAQS-20A, AMNS, OASIS), which provides mine warfare capability to the fleet.

OPMA - Organic Post Mission Analysis will provide common PMA software for the OAMCM and AN/AQS-24A systems. Software will be installed on the existing LCS computer. Ruggedized portable OPMA computers will be procured for ship-of-opportunity deployments, land-basing and training.

Surface Navy Integrated Undersea Tactical Technology (SNIUTT) will be integrated with an AN/SQQ-32, AN/AQS-14, AN/AQS-24, AN/AQS-20A and future OAMCM sensor training modules.

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
AIRBORNE MINE COUNTERMEASURES (See enclosed P-40A)	P40A, P5A, P21				218.575			35.661			33.515			61.552			0.000			61.552
<b>Total Gross/Weapon System Cost</b>					<b>218.575</b>			<b>35.661</b>			<b>33.515</b>			<b>61.552</b>			<b>-</b>			<b>61.552</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy</b>															<b>Date:</b> February 2012				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3							<b>P-1 Line Item Nomenclature:</b> 4248 - Airborne Mine Countermeasures								<b>Aggregated Item Name:</b> AIRBORNE MINE COUNTERMEASURES				

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) S0020 - MODIFICATION</b>																			
1.1) S0020 - MODIFICATION	A	-	-	34.494	-	-	9.641	-	-	7.098	-	-	11.576	-	-	-	-	-	11.576
<i>Subtotal 1) S0020 - MODIFICATION</i>				34.494			9.641			7.098			11.576			0.000			11.576
<b>2) S0061 - MK-105 MOD 4</b>																			
† 2.1) MK-105 MOD 4	A	-	-	-	-	-	-	16,600K	1	16.600	-	-	-	-	-	-	-	-	-
2.2) Production Line Set-Up	A	-	-	-	-	-	-	-	-	3.400	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) S0061 - MK-105 MOD 4</i>				0.000			0.000			20.000			0.000			0.000			0.000
<b>3) S0065 - UNIT COST - AMNS</b>																			
† 3.1) AMNS	A	-	-	17.964	2,243K	4	8.972	2,261K	1	2.261	2,286K	1	2.286	-	-	-	2,286K	1	2.286
3.2) AMNS (MH-53E)	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.3) PRODUCTION ENGINEERING	A	-	-	1.199	-	-	0.518	-	-	0.158	-	-	0.142	-	-	-	-	-	0.142
3.4) TRAINING EQUIPMENT	A	-	-	4.167	-	-	-	-	-	0.300	-	-	-	-	-	-	-	-	-
3.5) ILS/PUBS/TECH DATA	A	-	-	1.014	-	-	0.449	-	-	0.114	-	-	0.102	-	-	-	-	-	0.102
3.6) SUPPORT EQUIPMENT	A	-	-	1.728	-	-	1.161	-	-	0.267	-	-	0.270	-	-	-	-	-	0.270
<i>Subtotal 3) S0065 - UNIT COST - AMNS</i>				26.072			11.100			3.100			2.800			0.000			2.800
<b>4) S0074- UNIT COST - AQS-20A</b>																			
4.1) AN/AQS-20A	A	-	-	62.855	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2) EOID KIT	A	-	-	6.684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.3) PRODUCTION ECP (HW/SW)	A	-	-	11.114	-	-	-	-	-	0.271	-	-	-	-	-	-	-	-	-
4.4) PRODUCTION EQUIPMENT	A	-	-	3.107	-	-	-	-	-	0.286	-	-	-	-	-	-	-	-	-
4.5) NON-RECURRING ENGINEERING	A	-	-	2.586	-	-	-	-	-	0.313	-	-	-	-	-	-	-	-	-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N / BA 3 / BSA 3

**P-1 Line Item Nomenclature:**  
4248 - Airborne Mine Countermeasures

**Aggregated Item Name:**  
AIRBORNE MINE  
COUNTERMEASURES

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
4.6) TRAINING EQUIPMENT	A	-	-	8.425	-	-	-	-	-	0.287	-	-	-	-	-	-	-	-	-
4.7) ILS/PUBS \TECHDATA	A	-	-	1.893	-	-	-	-	-	0.287	-	-	-	-	-	-	-	-	-
4.8) SUPPORT EQUIPMENT	A	-	-	3.124	-	-	-	-	-	0.287	-	-	-	-	-	-	-	-	-
4.9) CONSULTING SERVICES	A	-	-	1.546	-	-	-	-	-	0.286	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) S0074-UNIT COST - AQS-20A</i>				101.334			0.000			2.017			0.000			0.000			0.000
<b>5) S0075- UNIT COST- ALMDS</b>																			
† 5.1) ALMDS	A	-	-	36.795	7,100K	2	14.200	-	-	-	7,338K	4	29.352	-	-	-	7,338K	4	29.352
5.2) PRODUCTION ENGINEERING	A	-	-	7.278	-	-	-	-	-	-	-	-	1.769	-	-	-	-	-	1.769
5.3) PRODUCTION ECP (HW/SW)	A	-	-	2.005	-	-	-	-	-	-	-	-	0.700	-	-	-	-	-	0.700
5.4) TRAINING EQUIPMENT	A	-	-	0.376	-	-	0.600	-	-	-	-	-	-	-	-	-	-	-	-
5.5) ILS/PUBS/ TECH DATA	A	-	-	2.169	-	-	-	-	-	-	-	-	0.155	-	-	-	-	-	0.155
5.6) SUPPORT EQUIPMENT	A	-	-	0.729	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) S0075-UNIT COST- ALMDS</i>				49.352			14.800			0.000			31.976			0.000			31.976
<b>6) S0076- UNIT COST - OASIS</b>																			
† 6.1) OASIS	A	-	-	-	-	-	-	-	-	-	2,617K	3	7.850	-	-	-	2,617K	3	7.850
6.2) PRODUCTION ENGINEERING	A	-	-	-	-	-	-	-	-	-	-	-	1.769	-	-	-	-	-	1.769
6.3) ENGINEERING CHANGE PROPOSALS	A	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.4) TRAINING EQUIPMENT	A	-	-	-	-	-	-	-	-	-	-	-	0.300	-	-	-	-	-	0.300
6.5) ILS/PUBS/ TECH DATA	A	-	-	-	-	-	-	-	-	-	-	-	0.981	-	-	-	-	-	0.981

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<b>Exhibit P-40A, Budget Item Justification For Aggregated Items:</b> PB 2013 Navy														<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3							<b>P-1 Line Item Nomenclature:</b> 4248 - Airborne Mine Countermeasures							<b>Aggregated Item Name:</b> AIRBORNE MINE COUNTERMEASURES					

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal 6) S0076-UNIT COST - OASIS				0.000			0.000			0.000			10.900			0.000			10.900
<b>7) S0090 - OAMCM Support Equipment</b>																			
7.1) OPMA	A	-	-	0.768	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.2) SNUITT	A	-	-	0.360	-	-	0.120	-	-	0.300	-	-	0.300	-	-	-	-	-	0.300
† 7.3) ORCA	A	-	-	6.195	-	-	-	-	-	-	1,000K	3	3,000	-	-	-	1,000K	3	3,000
† 7.4) Tow Cables	A	-	-	-	-	-	-	100,000.00	10	1,000	100,000.00	10	1,000	-	-	-	100,000.00	10	1,000
Subtotal 7) S0090 - OAMCM Support Equipment				7.323			0.120			1.300			4.300			0.000			4.300
<b>Total</b>				<b>218.575</b>			<b>35.661</b>			<b>33.515</b>			<b>61.552</b>			<b>0.000</b>			<b>61.552</b>

**Remarks:**

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Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Navy										Date: February 2012		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3				P-1 Line Item Nomenclature: 4248 - Airborne Mine Countermeasures						Aggregated Item Name: AIRBORNE MINE COUNTERMEASURES		
Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>2) S0061 - MK-105 MOD 4</b>												
†2.1) MK-105 MOD 4		2012	ITT / Panama City, Florida	C / IDIQ	NSWC PC	Jun 2012	Dec 2013	1	16,600,000.00	Y		Jul 2011
<b>3) S0065 - UNIT COST - AMNS</b>												
†3.1) AMNS		2009	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	Sep 2010	Feb 2012	4	2,225,000.00	Y		
†3.1) AMNS		2010	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	Jan 2011	Jun 2012	2	2,250,000.00	Y		Apr 2010
†3.1) AMNS		2011	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	Jun 2011	Nov 2012	4	2,243,000.00	Y		
†3.1) AMNS		2012	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	Apr 2012	Sep 2013	1	2,261,000.00	Y		
†3.1) AMNS		2013	Unknown / Unknown	C / FFP	NAVSEA	Jun 2013	Nov 2014	1	2,286,000.00	Y		May 2012
<b>5) S0075- UNIT COST- ALMDS</b>												
†5.1) ALMDS		2010	Northrup Grumman / Melbourne, Florida	SS / FFP	NSWC PC	Sep 2010	Mar 2012	3	7,159,000.00	Y		Dec 2008
†5.1) ALMDS		2011	Northrup Grumman / Melbourne, Florida	SS / FFP	NSWC PC	Mar 2012	Sep 2013	2	7,100,000.00	Y		Oct 2011
†5.1) ALMDS		2013	Unknown / Unknown	C / FFP	NSWC PC	Mar 2013	Sep 2014	4	7,338,000.00	N		Mar 2012
<b>6) S0076- UNIT COST - OASIS</b>												
†6.1) OASIS		2013	ITT / Panama City, Florida	SS / FFP	NAVSEA	Feb 2013	Aug 2014	3	2,616,670.00	N		Apr 2012
<b>7) S0090 - OAMCM Support Equipment</b>												
†7.3) ORCA		2013	Rolls Royce / Canada	C / FFP	NAVSEA	Feb 2013	Feb 2014	3	1,000,000.00	N		
†7.4) Tow Cables		2012	Unknown / Unknown	C / FFP	NSWC, PC	May 2012	May 2013	10	100,000.00	Y		May 2011
†7.4) Tow Cables		2013	Unknown / Unknown	C / FFP	NSWC, PC	May 2013	May 2014	10	100,000.00	Y		
<b>Remarks:</b>												



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Exhibit P-21, Budget Production Schedule: PB 2013 Navy																							Date: February 2012							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3										P-1 Line Item Nomenclature: 4248 - Airborne Mine Countermeasures										Aggregated Item Name: AIRBORNE MINE COUNTERMEASURES										
COST ELEMENTS Units in Each							Fiscal Year 2012										Fiscal Year 2013													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2012										Calendar Year 2013													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
2) S0061 - MK-105 MOD 4																														
2.1) MK-105 MOD 4																														
	16	2012	NAVY	1	0	1	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	1	
3) S0065 - UNIT COST - AMNS																														
3.1) AMNS																														
	17	2009	NAVY	4	0	4	-	-	-	-	1	1	1	-	1															
	17	2010	NAVY	2	0	2	-	-	-	-	-	-	-	-	1	1														
	17	2011	NAVY	4	0	4	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1									
	17	2012	NAVY	1	0	1	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
	18	2013	NAVY	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	1	
5) S0075- UNIT COST- ALMDS																														
5.1) ALMDS																														
	19	2010	NAVY	3	0	3	-	-	-	-	-	1	-	1	-	1														
	19	2011	NAVY	2	0	2	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
	20	2013	NAVY	4	0	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	4	
6) S0076- UNIT COST - OASIS																														
6.1) OASIS																														
	21	2013	NAVY	3	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	3	
7) S0090 - OAMCM Support Equipment																														
7.3) ORCA																														
	22	2013	NAVY	3	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	3	
7.4) Tow Cables																														
	23	2012	NAVY	10	0	10	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	4	3	3	
	23	2013	NAVY	10	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	10	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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Exhibit P-21, Budget Production Schedule: PB 2013 Navy																							Date: February 2012							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3										P-1 Line Item Nomenclature: 4248 - Airborne Mine Countermeasures										Aggregated Item Name: AIRBORNE MINE COUNTERMEASURES										
COST ELEMENTS Units in Each							Fiscal Year 2014										Fiscal Year 2015													
O C O	MFR Ref #	FY	SERVICE <sup>±</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
2) S0061 - MK-105 MOD 4																														
2.1) MK-105 MOD 4																														
	16	2012	NAVY	1	0	1	-	-	1																					
3) S0065 - UNIT COST - AMNS																														
3.1) AMNS																														
	17	2009	NAVY	4	4	0																								
	17	2010	NAVY	2	2	0																								
	17	2011	NAVY	4	4	0																								
	17	2012	NAVY	1	1	0																								
	18	2013	NAVY	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			
5) S0075- UNIT COST- ALMDS																														
5.1) ALMDS																														
	19	2010	NAVY	3	3	0																								
	19	2011	NAVY	2	1	1	-	1																						
	20	2013	NAVY	4	0	4	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	1					
6) S0076- UNIT COST - OASIS																														
6.1) OASIS																														
	21	2013	NAVY	3	0	3	-	-	-	-	-	-	-	-	-	-	1	-	1	1										
7) S0090 - OAMCM Support Equipment																														
7.3) ORCA																														
	22	2013	NAVY	3	0	3	-	-	-	-	1	1	1																	
7.4) Tow Cables																														
	23	2012	NAVY	10	10	0																								
	23	2013	NAVY	10	0	10	-	-	-	-	-	-	4	3	3															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4248 - Airborne Mine Countermeasures	<b>Aggregated Item Name:</b> AIRBORNE MINE COUNTERMEASURES

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)				PROCUREMENT LEADTIME (Months)							
		MSR	1-8-5	MAX		Initial				Reorder			
						ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	ITT - Panama City, Florida	1	3	6	0	0	18	18	0	0	18	18	
2	Raytheon - Portsmouth, RI	1	8	24	0	0	17	17	0	0	17	17	
3	Unknown - Unknown	1	8	24	0	0	17	17	0	0	17	17	
4	Northrup Grumman - Melbourne, Florida	3	12	24	0	0	18	18	0	0	18	18	
5	Unknown - Unknown	3	12	24	0	0	18	18	0	0	18	18	
6	ITT - Panama City, Florida	3	7	7	0	0	18	18	0	0	18	18	
7	Rolls Royce - Canada	0	0	0	0	0	12	12	0	0	12	12	
8	Unknown - Unknown	0	0	0	0	0	12	12	0	0	12	12	

**Remarks:**  
 ‡ Delivery rows marked with the ♦ symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

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**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4255 - LAMPS MK III Shipboard Equipment

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	162.020	16.294	12.908	18.771	-	18.771	18.828	21.321	21.669	22.073	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	162.020	16.294	12.908	18.771	-	18.771	18.828	21.321	21.669	22.073	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	162.020	16.294	12.908	18.771	-	18.771	18.828	21.321	21.669	22.073	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	1.100	1.369	1.266	-	1.266	0.713	1.023	0.889	0.892	Continuing	Continuing
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This program provides for non-recurring engineering, procurement and installation of AN/SRQ-4(Ku) field install kits. This system encompasses hardware and software to transmit sensor data from the Light Airborne Multi-Purpose System (LAMPS) MK III aircraft to the host ship classes (cruisers, destroyers, and frigates). The minimum sustaining production rate is 6 kits per Fiscal Year.

Program spares are budgeted by NAVSEA OPN BLI 9020.

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
S1010-SRQ(KU)-4 - 1	P3A		-	-	162.020	-	-	16.294	-	-	12.908	-	-	18.771	-	-	0.000	-	-	18.771
<b>Total Gross/Weapon System Cost</b>					<b>162.020</b>			<b>16.294</b>			<b>12.908</b>			<b>18.771</b>			<b>-</b>			<b>18.771</b>
		FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
S1010-SRQ(KU)-4 - 1	P3A		-	-	18.828	-	-	21.321	-	-	21.669	-	-	22.073	-	-	-	-	-	-
<b>Total Gross/Weapon System Cost</b>					<b>18.828</b>			<b>21.321</b>			<b>21.669</b>			<b>22.073</b>			<b>-</b>			<b>-</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**

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<b>Exhibit P-40, Budget Item Justification Sheet:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment		<b>P-1 Line Item Nomenclature:</b> 4255 - LAMPS MK III Shipboard Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
The FY13 request funds the procurement of 8 AN/SRQ-4(Ku) ship units and associated support to meet the MH-60R fleet deployment schedule.		

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy							<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3			<b>P-1 Line Item Nomenclature:</b> 4255 - LAMPS MK III Shipboard Equipment				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): S1010-SRQ(KU)-4 - 1					

<b>Models of Systems Affected:</b> LAMPS MK III			<b>Type Modification:</b> Non-Organic				<b>Related RDT&amp;E PEs:</b>					
---	--	--	---------------------------------------	--	--	--	-------------------------------	--	--	--	--	--

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	162.020	16.294	12.908	18.771	0.000	18.771	18.828	21.321	21.669	22.073	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	162.020	16.294	12.908	18.771	0.000	18.771	18.828	21.321	21.669	22.073	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>162.020</b>	<b>16.294</b>	<b>12.908</b>	<b>18.771</b>	<b>0.000</b>	<b>18.771</b>	<b>18.828</b>	<b>21.321</b>	<b>21.669</b>	<b>22.073</b>	<b>Continuing</b>	<b>Continuing</b>

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

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

**Description:**

This program provides for the procurement of AN/SRQ-4 (Ku) field install kits and associated installation and support costs. This system encompasses hardware and software to transmit sensor data from the Light Airborne Multi-Purpose System (LAMPS) MK III MH-60R aircraft to the host ship classes. The minimum sustaining production rate is 6 kits per fiscal year.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy										<b>Date:</b> February 2012			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3					<b>P-1 Line Item Nomenclature:</b> 4255 - LAMPS MK III Shipboard Equipment					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): S1010-SRQ(KU)-4 - 1			
<b>Models of Systems Affected:</b> LAMPS MK III				<b>Type Modification:</b> Non-Organic				<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total		
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	
<b>Procurement</b>													
S1010-SRQ(KU)-4													
B Kits													
Recurring													
1.1.1) Recurring - NonOrganic <sup>(1)</sup>													
	23	60.189	6	6.419	3	3.339	8	9.258	-	-	8	9.258	
<i>Subtotal Recurring</i>		60.189	6.419		3.339	9.258		0.000		9.258			
NonRecurring													
1.2.1) NRE - Organic													
	-	30.126	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal NonRecurring</i>		30.126	0.000		0.000	0.000		0.000		0.000			
<i>Total, S1010-SRQ(KU)-4</i>		23	90.315	6	6.419	3	3.339	8	9.258	-	-	8	9.258
<i>Total, All Modifications</i>			90.315		6.419		3.339		9.258		0.000		9.258
<b>Support</b>													
2.1) Support Equipment													
	-	0.635	-	-	-	0.580	-	1.145	-	-	-	1.145	
2.2) ILS													
	-	9.195	-	5.186	-	3.986	-	2.100	-	-	-	2.100	
2.3) Production Engineering													
	-	58.656	-	4.386	-	4.037	-	4.474	-	-	-	4.474	
2.4) Acceptance Test & Evaluation													
	-	0.710	-	0.205	-	0.206	-	0.215	-	-	-	0.215	
2.5) GFE													
	-	2.509	-	0.098	-	0.020	-	0.023	-	-	-	0.023	
2.6) Interim Contractor Support													
	-	-	-	-	-	0.500	-	0.716	-	-	-	0.716	
<i>Total Support Cost</i>		71.705	9.875		9.329	8.673		0.000		8.673			
<i>Procurement Cost (Procurement + Support)</i>		162.020	16.294		12.668	17.931		0.000		17.931			
<i>Total Installation Cost</i>		0.000	0.000		0.240	0.840		0.000		0.840			
<b>Total Cost (Procurement + Support + Installation)</b>		162.020	16.294		12.908	18.771		0.000		18.771			
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	
<b>Procurement</b>													
S1010-SRQ(KU)-4													
B Kits													



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4255 - LAMPS MK III Shipboard Equipment	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): S1010-SRQ(KU)-4 - 1

<b>Models of Systems Affected:</b> LAMPS MK III	<b>Type Modification:</b> Non-Organic	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Recurring												
1.1.1) Recurring - NonOrganic (1)	8	9.628	11	13.768	10	13.017	10	13.538	23	33.464	102	162.620
<i>Subtotal Recurring</i>		9.628		13.768		13.017		13.538		33.464		162.620
NonRecurring												
1.2.1) NRE - Organic	-	-	-	-	-	-	-	-	-	-	-	30.126
<i>Subtotal NonRecurring</i>		0.000		0.000		0.000		0.000		0.000		30.126
<i>Total, S1010-SRQ(KU)-4</i>	8	9.628	11	13.768	10	13.017	10	13.538	23	33.464	102	192.746
<i>Total, All Modifications</i>		9.628		13.768		13.017		13.538		33.464		192.746
<b>Support</b>												
2.1) Support Equipment	-	1.147	-	0.995	-	2.769	-	2.620	Continuing	Continuing	Continuing	Continuing
2.2) ILS	-	2.016	-	1.923	-	2.032	-	2.165	Continuing	Continuing	Continuing	Continuing
2.3) Production Engineering	-	3.147	-	2.989	-	2.875	-	2.769	Continuing	Continuing	Continuing	Continuing
2.4) Acceptance Test & Evaluation	-	0.218	-	0.221	-	0.224	-	0.229	Continuing	Continuing	Continuing	Continuing
2.5) GFE	-	0.037	-	0.024	-	0.032	-	0.032	Continuing	Continuing	Continuing	Continuing
2.6) Interim Contractor Support	-	0.715	-	0.501	-	-	-	-	-	-	-	2.432
<i>Total Support Cost</i>		7.280		6.653		7.932		7.815		0.000		2.432
<i>Procurement Cost (Procurement + Support)</i>		16.908		20.421		20.949		21.353		33.464		195.178
<i>Total Installation Cost</i>		1.920		0.900		0.720		0.720		4.767		10.107
<b>Total Cost (Procurement + Support + Installation)</b>		<b>18.828</b>		<b>21.321</b>		<b>21.669</b>		<b>22.073</b>		<b>38.231</b>		<b>205.285</b>

**Remarks:**

(1)1. FY2011 scheduled Installs zeroed out & FY12 scheduled installs delayed due to changes in ship availability schedules.

Notes for installation schedule:

- FY2011 scheduled Installs zeroed out & FY12 scheduled installs delayed due to changes in ship availability schedules.
- Delivery of 1st unit is scheduled 25 months after contract award. Remaining deliveries are phased over the next 12 months.
- Ship Installations are phased as follows:  
FY11 procurements: (2) Q3 FY14; (4) Q4 FY14  
FY12 procurements: (3) Q2 FY15  
FY13 procurements: (3) Q3 FY15; (4) Q4 FY15; (1) Q1 FY16;  
FY14 procurements: (1) Q2 FY16; (3) Q3 FY16; (3) Q4 FY16; (1) Q1 FY17;

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4255 - LAMPS MK III Shipboard Equipment	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): S1010-SRQ(KU)-4 - 1

<b>Models of Systems Affected:</b> LAMPS MK III	<b>Type Modification:</b> Non-Organic	<b>Related RDT&amp;E PEs:</b>
FY15 procurements: (1) Q2 FY17; (3) Q3 FY17; (3) Q4 FY17; (4) TC 4. Installations are subject to changes in ship availability schedules. 5. Installation unit costs vary due to ship hull and configuration.		

<b>Manufacturer Information: S1010-SRQ(KU)-4</b>							
Manufacturer Name: L3				Manufacturer Location: Salt Lake City, UT			
Administrative Leadtime ( <i>in Months</i> ): 5				Production Leadtime ( <i>in Months</i> ): 24			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates	Mar 2011						
Delivery Dates	Mar 2013						
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime ( <i>in Months</i> ): 5				Production Leadtime ( <i>in Months</i> ): 25			
<b>Dates</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Contract Dates		Mar 2012	Feb 2013	Feb 2014	Feb 2015	Feb 2016	Feb 2017
Delivery Dates		Apr 2014	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019

<b>Installation:</b> S1010-SRQ(KU)-4	<b>Method of Implementation:</b> NAWCAD St. Inigoes Installation Team	<b>Installation Name:</b> AN/SRQ-4 Installations
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<b>Installation Cost</b>	<b>Prior Years</b>		<b>FY 2011</b>		<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	
	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>	<i>Qty (Each)</i>	<i>Total Cost (\$ M)</i>
All Prior Years	-	-	-	-	3	0.240	14	0.840	0	0.000	14	0.840
FY 2011	-	-	-	-	-	-	-	-	-	-	-	-
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	3	0.240	14	0.840	0	0.000	14	0.840

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4255 - LAMPS MK III Shipboard Equipment	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): S1010-SRQ(KU)-4 - 1

<b>Models of Systems Affected:</b> LAMPS MK III	<b>Type Modification:</b> Non-Organic	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> S1010-SRQ(KU)-4	<b>Method of Implementation:</b> NAWCAD St. Inigoes Installation Team	<b>Installation Name:</b> AN/SRQ-4 Installations
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	6	0.960	-	-	-	-	-	-	-	-	23	2.040
FY 2011	6	0.960	-	-	-	-	-	-	-	-	6	0.960
FY 2012	-	-	3	0.270	-	-	-	-	-	-	3	0.270
FY 2013	-	-	7	0.630	1	0.090	-	-	-	-	8	0.720
FY 2014	-	-	-	-	7	0.630	1	0.090	-	-	8	0.720
FY 2015	-	-	-	-	-	-	7	0.630	4	0.406	11	1.036
FY 2016	-	-	-	-	-	-	-	-	10	1.015	10	1.015
FY 2017	-	-	-	-	-	-	-	-	10	1.015	10	1.015
To Complete	-	-	-	-	-	-	-	-	23	2.331	23	2.331
<b>Total</b>	<b>12</b>	<b>1.920</b>	<b>10</b>	<b>0.900</b>	<b>8</b>	<b>0.720</b>	<b>8</b>	<b>0.720</b>	<b>47</b>	<b>4.767</b>	<b>102</b>	<b>10.107</b>

Installation Schedule																														
APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	-	-	-	-	-	-	3	-	2	4	4	4	2	3	3	4	-	3	3	4	1	1	3	3	1	1	3	3	47	102
Out	-	-	-	-	-	-	-	-	3	-	2	4	4	4	2	3	3	4	-	3	3	4	1	1	3	3	1	1	53	102

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4264 - Portable Electronic Maintenance Aids

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
	Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	4.895	10.554	7.875	7.954	-	7.954	5.544	4.270	4.349	4.433	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	4.895	10.554	7.875	7.954	-	7.954	5.544	4.270	4.349	4.433	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	4.895	10.554	7.875	7.954	-	7.954	5.544	4.270	4.349	4.433	Continuing	Continuing

*(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:**

Portable Electronic Maintenance Aids (PEMAs) are Aviation Support Equipment end items used by fleet technicians to assist in performing maintenance and diagnostics of aircraft. Funding is required to procure the necessary hardware, software applications, initial stand up, and production support. PEMAs are a portable display device used in the Automated Maintenance Environment (AME) to read digital maintenance publications and Integrated Electronic Technical Manuals (IETMs). PEMAs with IETMs applications interpret aircraft Binary Digit (BIT) Data to diagnose the aircraft systems and direct maintenance actions.

FY11 Provides funding to procure 1,887 PEMA units and associated support cost.

FY12 Provides funding to procure 1,442 PEMA units and associated support cost.

FY13 Provides funding to procure 1,454 PEMA units and associated support cost.

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Portable Electronic Maintenance Aids (See enclosed P-40A)	P40A, P5A, P21				4.895			10.554			7.875			7.954			0.000			7.954
<b>Total Gross/Weapon System Cost</b>					<b>4.895</b>			<b>10.554</b>			<b>7.875</b>			<b>7.954</b>			-			<b>7.954</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2013 Navy **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4264 - Portable Electronic Maintenance Aids	<b>Aggregated Item Name:</b> Portable Electronic Maintenance Aids
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Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) Hardware</b>																			
† 1.1) Portable Electronic Maintenance Aids (PEMAs) <sup>(1)</sup>	A	-	-	3.795	5,085.00	1,887	9.595	4,299.00	1,442	6.199	4,377.00	1,454	6.364	-	-	-	4,377.00	1,454	6.364
<i>Subtotal 1) Hardware</i>				3.795			9.595			6.199			6.364			0.000			6.364
<b>2) Production Support</b>																			
2.1) Portable Electronic Maintenance Aids (PEMAs)	A	-	-	1.100	-	-	0.959	-	-	1.676	-	-	1.590	-	-	-	-	-	1.590
<i>Subtotal 2) Production Support</i>				1.100			0.959			1.676			1.590			0.000			1.590
<b>Total</b>				<b>4.895</b>			<b>10.554</b>			<b>7.875</b>			<b>7.954</b>			<b>0.000</b>			<b>7.954</b>

**Remarks:**

<sup>(1)</sup>Note 1: Quantities of PEMAs are derived from actual current inventory, as reported by the fleet in the mandated asset tracking system Support Equipment Management System (SEMS). This program is a replenishment of these fielded systems on a one for one basis as required.

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Navy **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4264 - Portable Electronic Maintenance Aids	<b>Aggregated Item Name:</b> Portable Electronic Maintenance Aids
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$)</small>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1) Hardware</b>												
†1.1) Portable Electronic Maintenance Aids (PEMAs) <sup>(2)</sup>		2011	Panasonic of North America / Secaucus, NJ	C / IDIQ	NAWCAD LKE	Feb 2011	Jun 2011	1,887	5,085.00	Y		Feb 2011
†1.1) Portable Electronic Maintenance Aids (PEMAs)		2012	Panasonic of North America / Secaucus, NJ	C / IDIQ	NAWCAD LKE	Jan 2012	Mar 2012	1,442	4,299.00	Y		Dec 2011
†1.1) Portable Electronic Maintenance Aids (PEMAs)		2013	Panasonic of North America / Secaucus, NJ	C / IDIQ	NAWCAD LKE	Dec 2012	Feb 2013	1,454	4,377.00	Y		Dec 2012

**Remarks:**

<sup>(2)</sup>Market research and analysis testing being conducted to determine who will serve as the distributor for Panasonic on the FY11/12 IDIQ contract.

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**Exhibit P-21, Budget Production Schedule: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4264 - Portable Electronic Maintenance Aids **Aggregated Item Name:** Portable Electronic Maintenance Aids

COST ELEMENTS Units in Each							Fiscal Year 2011											Fiscal Year 2012													
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2011											Calendar Year 2012													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
1) Hardware																															
1.1) Portable Electronic Maintenance Aids (PEMAs)																															
	24	2011	NAVY	1887	0	1887	-	-	-	-	A -	-	-	-	-	324	518	495	475	75											
	24	2012	NAVY	1442	0	1442	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	180	180	180	180	180	180	182
	24	2013	NAVY	1454	0	1454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1454		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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**Exhibit P-21, Budget Production Schedule: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4264 - Portable Electronic Maintenance Aids **Aggregated Item Name:** Portable Electronic Maintenance Aids

COST ELEMENTS Units in Each							Fiscal Year 2013											Fiscal Year 2014												
O C O	MFR Ref #	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 2013											Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
1) Hardware																														
1.1) Portable Electronic Maintenance Aids (PEMAs)																														
	24	2011	NAVY	1887	1887	0																								
	24	2012	NAVY	1442	1260	182	182																							
	24	2013	NAVY	1454	0	1454	-	-	A -	-	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Budget Production Schedule:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4264 - Portable Electronic Maintenance Aids	<b>Aggregated Item Name:</b> Portable Electronic Maintenance Aids

MFR Ref #	MFR Name - Location	PRODUCTION RATES (Units/Year)			PROCUREMENT LEADTIME (Months)								
		MSR	1-8-5	MAX	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Panasonic of North America - Secaucus, NJ	500	2000	5000	0	0	0	0	0	0	3	2	5

**Remarks:**  
 ‡ Delivery rows marked with the ♦ symbol indicate that they are funded through a separate Line Item. Additionally, deliveries for such components are not shown in this exhibit if they occur after the last delivery for the budgeting component. See the respective components' exhibits for details, including the full delivery schedule.

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**Exhibit P-40, Budget Item Justification Sheet: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
 4265 - Other Aviation Support Equipment

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	117.219	11.953	30.779	10.023	-	10.023	11.828	9.356	8.717	10.538	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	117.219	11.953	30.779	10.023	-	10.023	11.828	9.356	8.717	10.538	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	117.219	11.953	30.779	10.023	-	10.023	11.828	9.356	8.717	10.538	Continuing	Continuing

*(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:**

**DESCRIPTION:**

Industrial Facilities Equipment (S7030):

Procures upgrades and enhancements to Test Equipment supporting the Sonobuoy Quality Assurance Program at San Clemente Island and ongoing sonobuoy engineering reviews at Naval Air Warfare Center Patuxent River.

Decision Knowledge Programming for Logistics Analysis and Technical Evaluation (DECKPLATE) (S7039):

DECKPLATE is the next generation of Naval Aviation Logistics Data Analysis (NALDA) and will interface with Navy Enterprise Resource Program (ERP) as the Naval Aviation Business Warehouse. It provides the technological improvements and process streamlining required to enable a cost wise transition from the NALDA program to the capabilities required in Joint Vision 2020 and the Naval Transformation Road Map. DECKPLATE is a Commercial Off the Shelf (COTS) intensive system under which numerous stovepipe legacy systems will migrate to create an integrated data environment through the use of Data Warehouse tools and concepts in support of Naval aviation logistics needs. This is being accomplished by upgrading current Naval Aviation logistics reporting mechanisms through the procurement and installation of a fully-licensed, warranted, secure, standardized, COTS, user-friendly, web-based relational database environment. Additionally, Life-Cycle Management (LCM) dollar resource requirements have been identified for hardware, software and process technology upgrades (refreshment), which have also been incorporated above. Funding is required to procure the necessary hardware, networking, systems, applications software, infrastructure, and associated engineering and installation support.

Naval Aviation Logistics Command Management Information System (NALCOMIS) (S7041):

As Optimized Organizational Maintenance Activity (OOMA) and Optimized Intermediate Maintenance Activity (OIMA) approach full implementation, NALCOMIS (also identified as Naval Air Systems Command Fleet Systems Array (NFSA)) is responsible for implementation of Mid Tier Servers at 75+ sites both shipboard and shore based. These Mid Tier Servers replicate data from the Organizational and Intermediate level maintenance activities to the NALDA Upline processing center to provide near-real time data to decision makers at all levels. The Mid Tier also allows data to be pushed from Headquarters activities to the fleet to support maintenance activities.

Joint Technical Data Integration (JTDI) (S7042):

Funding supports the requirement to procure JTDI for installation on all Carrier (CV) and Amphibious Assault (L) class ships and up to 104 Navy/Marine Corp aviation activities. JTDI is a digital technical data access, delivery and local O&I level library management toolset and telemaintenance collaboration process enabler. It improves accuracy and timeliness of technical manual and other technical data delivery and minimizes the Fleet's library management burden. JTDI reduces maintenance manhours with savings Return on Investment (ROI) of 2.5:1 and savings/avoidance ROI of 9.5:1. It facilitates the transition of

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment	<b>P-1 Line Item Nomenclature:</b> 4265 - Other Aviation Support Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b>
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the Joint Distance Support and Response (JDSR) Advanced Concept Technology Demonstration (ACTD) for telemaintenance and provides for process efficiencies to support ongoing Aviation Fleet Technical Representative reductions.

**Joint Technical Data Integration (JTDI) Overseas Contingency Operations (OCO FY12) (S7042):**  
 Procurement of distance support telemaintenance kits for deployed Technical Representatives (Tech Reps), Marine Corps Air Logistics squadrons (MALS), Aviation Intermediate Maintenance Departments (AIMD) on board all Carrier Class and L Class ships and Expeditionary Airfield Units (EAF) units in support of OCO Tactical Operations. Increased OpTempo of aircraft in support of OCO have driven the need for deployable distance support telemaintenance capabilities that reduce repair cycle time and improves overall maintenance Turn Around Time (TaT).

**Marine Aviation Logistics Support Program II (MALSP II) Expeditionary Pack up Kit (EPUK) (S7046):**  
 MALSP II allows USMC to meet current and future operational requirements in austere expeditionary environments across the Range of Military Operations (ROMO). MALSP II will allow aviation logisticians to decrease total infrastructure and resource inventories forward by moving the preponderance of the Maintenance and Supply workload to the CONUS Parent (P)MALS, and reducing the total forward Aviation Logistics footprint (personnel, equipment, facilities and spares). EPUK, as part of MALSP II, is an automated wireless hardware/software solution that is a key enabler in integrating US Marine Corp Aviation Combat Element (ACE) and Logistics Combat Element (LCE) logistics systems to make the Marine Air Ground Task Force (MAGTF) more responsive, agile, flexible and lethal, in support of OCO requirements, the Naval Aviation Enterprise (NAE) Strategic Plan, Marine Corps Vision & Strategy 2025, and the USMC Long War Concept. Funding is required to procure the necessary hardware, hand-held peripherals, satellite communication units, and associated engineering and hardware support.

**Automated Data Capture System (ADCS) (S7047):**  
 ADCS is a user friendly, interactive mobile computing system currently in use at depot-level Fleet Readiness Centers to document and analyze aircraft discrepancies discovered during scheduled maintenance events. Inspectors use menu driven checklists plus digital aircraft and engine drawings during inspection and evaluation to create immediate discrepancy records and produce real time reports that fulfill customer and specification requirements. Requested funding will provide hardware and software for a lead-the-Fleet effort that will enable the organizational maintenance level to utilize ADCS to better document vital corrosion and wiring related discrepancy information. Once captured, this information will be analyzed by organizational level maintenance department personnel and depot level engineers to develop targeted mitigation strategies aimed at reducing or removing corrosion in identified areas. The results of the analysis made possible by using ADCS will greatly improve our understanding of where and how corrosion is affecting our aircraft, resulting in the formulation of statistically targeted area identification and sound attack strategies.

Item Schedule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Other Aviation Support Equipment (See enclosed P-40A)	P40A, P5A				110.390			6.572			25.114			10.023			0.000			10.023
ALIS SHIP INSTALLATION S7910 - 1	P3A		-	-	6.829	-	-	5.381	-	-	5.665	-	-	0.000	-	-	0.000	-	-	0.000
<b>Total Gross/Weapon System Cost</b>					<b>117.219</b>			<b>11.953</b>			<b>30.779</b>			<b>10.023</b>			<b>-</b>			<b>10.023</b>

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4265 - Other Aviation Support Equipment

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

Item Nomenclature*	Exhibits	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Other Aviation Support Equipment (See enclosed P-40A)	P40A, P5A				0.000			0.000			0.000			0.000			0.000			0.000
ALIS SHIP INSTALLATION S7910 - 1	P3A		-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	17.875
<b>Total Gross/Weapon System Cost</b>					<b>11.828</b>			<b>9.356</b>			<b>8.717</b>			<b>10.538</b>			-			-

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**

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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy														Date: February 2012					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3							P-1 Line Item Nomenclature: 4265 - Other Aviation Support Equipment							Aggregated Item Name: Other Aviation Support Equipment					
Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) Industrial Facilities Equipment</b>																			
1.1) Sonobuoy Acoustic Data Recorders/ RF Spectrum Analyzers	A	-	-	4.964	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) Industrial Facilities Equipment</i>				4.964		0.000		0.000		0.000		0.000		0.000		0.000		0.000	
<b>2) Naval Aviation Logistics Data Analysis Decision Knowledge Programming for Logistics Analyis</b>																			
† 2.1) Aviation Data Warehouse Environment	A	-	-	7.756	2,285K	1	2.285	206,000.00	1	0.206	494,000.00	1	0.494	-	-	-	494,000.00	1	0.494
<i>Subtotal 2) Naval Aviation Logistics Data Analysis Decision Knowledge Programming for Logistics Analyis</i>				7.756		2.285		0.206		0.494		0.000		0.000		0.494		0.494	
<b>3) HW &amp; SW Naval Aviation Logistics Command Management Information System (NALCOMIS)</b>																			
† 3.1) Naval Air Systems Command Fleet System Array	A	-	-	24.657	1,409K	1	1.409	1,128K	1	1.128	2,809K	1	2.809	-	-	-	2,809K	1	2.809
<i>Subtotal 3) HW &amp; SW Naval Aviation Logistics Command Management Information System (NALCOMIS)</i>				24.657		1.409		1.128		2.809		0.000		2.809		2.809		2.809	
<b>4) Joint Technical Data Integration (JTDI)</b>																			
† 4.1) JTDI Suites	A	-	-	64.278	168,420.00	1	0.168	1,981K	1	1.981	3,107K	1	3.107	-	-	-	3,107K	1	3.107
† 4.2) Distance Support Kits for Expeditionary Air Field	A	-	-	-	-	-	-	3,472K	1	3.472	-	-	-	-	-	-	-	-	-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy** **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4265 - Other Aviation Support Equipment **Aggregated Item Name:** Other Aviation Support Equipment

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
† 4.3) Telemaintenance Kits	A	-	-	-	-	-	-	3,600K	1	3.600	-	-	-	-	-	-	-	-	-
† 4.4) Outside the Continental US Regional Servers	A	-	-	-	-	-	-	1,282K	1	1.282	-	-	-	-	-	-	-	-	-
† 4.5) Secret Internet Protocol Router Network Top Tier	A	-	-	-	-	-	-	5,992K	1	5.992	-	-	-	-	-	-	-	-	-
† 4.6) Transit Cases	A	-	-	-	-	-	-	2,362K	1	2.362	-	-	-	-	-	-	-	-	-
† 4.7) Portable Electronic Maintenance Aid (PEMA) Deployable Wireless Kits	A	-	-	-	-	-	-	1,518K	1	1.518	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) Joint Technical Data Integration (JTDI)</i>				64.278			0.168			20.207			3.107			0.000			3.107
<b>5) Marine Aviation Logistics Support Program II (MALSP)/ Expeditionary Pack Up Kits (EPUK)</b>																			
† 5.1) Expeditionary Pack Up Kits	B	-	-	-	-	-	-	353,230.00	1	0.353	913,220.00	1	0.913	-	-	-	913,220.00	1	0.913
<i>Subtotal 5) Marine Aviation Logistics Support Program II (MALSP)/ Expeditionary Pack Up Kits (EPUK)</i>				0.000			0.000			0.353			0.913			0.000			0.913
<b>6) Automated Data Capture System (ADCS)</b>																			
† 6.1) ADCS Hardware	B	-	-	-	-	-	-	4,000.00	20	0.080	4,000.00	20	0.080	-	-	-	4,000.00	20	0.080
† 6.2) ADCS Software	B	-	-	-	-	-	-	347,000.00	1	0.347	391,000.00	1	0.391	-	-	-	391,000.00	1	0.391
<i>Subtotal 6) Automated Data Capture System (ADCS)</i>				0.000			0.000			0.427			0.471			0.000			0.471
<b>7) Production Engineering Support (AIR6.8)</b>																			

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4265 - Other Aviation Support Equipment **Aggregated Item Name:** Other Aviation Support Equipment

Items († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
7.1) Aviation Data Warehouse Environment	A	-	-	1.996	-	-	0.465	-	-	0.239	-	-	-	-	-	-	-	-	-
7.2) Legacy Aviation Maintenance Environment	A	-	-	0.299	-	-	0.299	-	-	-	-	-	-	-	-	-	-	-	-
7.3) Naval Air Systems Command Fleet System Arrays	A	-	-	4.561	-	-	0.987	-	-	1.048	-	-	0.990	-	-	-	-	-	0.990
7.4) JTDI Suites	A	-	-	1.879	-	-	0.959	-	-	1.323	-	-	1.100	-	-	-	-	-	1.100
7.5) ADCS HW SW Engineering	A	-	-	-	-	-	-	-	-	0.183	-	-	0.139	-	-	-	-	-	0.139
<i>Subtotal 7) Production Engineering Support (AIR6.8)</i>				8.735			2.710			2.793			2.229			0.000			2.229
<b>Total</b>				<b>110.390</b>			<b>6.572</b>			<b>25.114</b>			<b>10.023</b>			<b>0.000</b>			<b>10.023</b>



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Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Navy														Date: February 2012					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3						P-1 Line Item Nomenclature: 4265 - Other Aviation Support Equipment						Aggregated Item Name: Other Aviation Support Equipment							
Items († indicates the presence of a P-5A)	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<b>1) Industrial Facilities Equipment</b>																			
1.1) Sonobuoy Acoustic Data Recorders/ RF Spectrum Analyzers	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 1) Industrial Facilities Equipment</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>2) Naval Aviation Logistics Data Analysis Decision Knowledge Programming for Logistics Analyis</b>																			
† 2.1) Aviation Data Warehouse Environment	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 2) Naval Aviation Logistics Data Analysis Decision Knowledge Programming for Logistics Analyis</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>3) HW &amp; SW Naval Aviation Logistics Command Management Information System (NALCOMIS)</b>																			
† 3.1) Naval Air Systems Command Fleet System Array	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 3) HW &amp; SW Naval Aviation Logistics Command Management Information System (NALCOMIS)</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>4) Joint Technical Data Integration (JTDI)</b>																			
† 4.1) JTDI Suites	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 4.2) Distance Support Kits for Expeditionary Air Field	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4265 - Other Aviation Support Equipment **Aggregated Item Name:** Other Aviation Support Equipment

Items († indicates the presence of a P-5A)	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
† 4.3) Telemaintenance Kits	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 4.4) Outside the Continental US Regional Servers	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 4.5) Secret Internet Protocol Router Network Top Tier	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 4.6) Transit Cases	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 4.7) Portable Electronic Maintenance Aid (PEMA) Deployable Wireless Kits	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 4) Joint Technical Data Integration (JTDI)</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>5) Marine Aviation Logistics Support Program II (MALSP)/ Expeditionary Pack Up Kits (EPUK)</b>																			
† 5.1) Expeditionary Pack Up Kits	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 5) Marine Aviation Logistics Support Program II (MALSP)/ Expeditionary Pack Up Kits (EPUK)</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>6) Automated Data Capture System (ADCS)</b>																			
† 6.1) ADCS Hardware	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† 6.2) ADCS Software	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 6) Automated Data Capture System (ADCS)</i>				0.000			0.000			0.000			0.000			0.000			0.000
<b>7) Production Engineering Support (AIR6.8)</b>																			

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**Exhibit P-40A, Budget Item Justification For Aggregated Items:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:** 1810N / BA 3 / BSA 3 **P-1 Line Item Nomenclature:** 4265 - Other Aviation Support Equipment **Aggregated Item Name:** Other Aviation Support Equipment

Items († indicates the presence of a P-5A)	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
7.1) Aviation Data Warehouse Environment	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.2) Legacy Aviation Maintenance Environment	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3) Naval Air Systems Command Fleet System Arrays	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.4) JTDI Suites	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.5) ADCS HW SW Engineering	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal 7) Production Engineering Support (AIR6.8)</i>				<i>0.000</i>			<i>0.000</i>			<i>0.000</i>			<i>0.000</i>			<i>0.000</i>			<i>0.000</i>
<b>Total</b>				<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>

**Remarks:**

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Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Navy										Date: February 2012		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / BA 3 / BSA 3				P-1 Line Item Nomenclature: 4265 - Other Aviation Support Equipment						Aggregated Item Name: Other Aviation Support Equipment		
Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>2) Naval Aviation Logistics Data Analysis Decision Knowledge Programming for Logistics Anlys</b>												
2.1) Aviation Data Warehouse Environment		2011	Teradata Government Systems / Germantown MD	C / FFP	NAVSUP	Mar 2011	Apr 2011	1	2,285,000.00	Y		Feb 2011
2.1) Aviation Data Warehouse Environment		2012	TBD / TBD	C / TBD	NAVSUP	Apr 2012	Jun 2012	1	206,000.00	Y		Jan 2012
2.1) Aviation Data Warehouse Environment		2013	TBD / TBD	C / TBD	NAVSUP	Apr 2013	Jun 2013	1	494,000.00	Y		Jan 2013
<b>3) HW &amp; SW Naval Aviation Logistics Command Management Information System (NALCOMIS)</b>												
3.1) Naval Air Systems Command Fleet System Array		2011	Intergraph / Huntsville, AL	C / FFP	NAVSUP	Aug 2011	Oct 2011	1	1,409,020.00	Y		Jan 2011
3.1) Naval Air Systems Command Fleet System Array		2012	TBD / TBD	C / TBD	NAVSUP	Aug 2012	Oct 2012	1	1,128,130.00	Y		Jan 2012
3.1) Naval Air Systems Command Fleet System Array		2013	TBD / TBD	C / TBD	NAVSUP	Aug 2013	Oct 2013	1	2,809,000.00	Y		Jan 2013
<b>4) Joint Technical Data Integration (JTDI)</b>												
4.1) JTDI Suites		2011	Aranea / Huntsville, AL	C / IDIQ	NAVSUP	Aug 2011	Dec 2011	1	168,420.00	Y		Feb 2011
4.1) JTDI Suites		2012	Aranea / Huntsville, AL	C / IDIQ	NAVSUP	Dec 2011	Mar 2012	1	1,981,000.00	Y		Oct 2011
4.1) JTDI Suites		2013	Aranea / Huntsville, AL	C / IDIQ	NAVSUP	Dec 2012	Mar 2013	1	3,107,000.00	Y		Oct 2012
4.2) Distance Support Kits for Expeditionary Air Field	✓	2012	TBD / TBD	WR	PMDCATS	Mar 2012	Jun 2012	1	3,472,000.00	Y		Jan 2012
4.3) Telemaintenance Kits	✓	2012	TBD / TBD	C / FFP	PMDCATS	Mar 2012	Jun 2012	1	3,600,000.00	Y		Jan 2012
4.4) Outside the Continental US Regional Servers	✓	2012	TBD / TBD	C / TBD	TBD	Mar 2012	Jul 2012	1	1,282,000.00	Y		
4.5) Secret Internet Protocol Router Network Top Tier	✓	2012	TBD / TBD	C / TBD	TBD	Mar 2012	Jul 2012	1	5,992,000.00	Y		
4.6) Transit Cases	✓	2012	NAWCAD PAX / NAWCAD PAX	WR	NAWCAD	Mar 2012	Jul 2012	1	2,362,000.00	Y		
4.7) Portable Electronic Maintenance Aid (PEMA) Deployable Wireless Kits	✓	2012	TBD / TBD	C / TBD	TBD	Mar 2012	Jul 2012	1	1,518,000.00	Y		
<b>5) Marine Aviation Logistics Support Program II (MALSP)/ Expeditionary Pack Up Kits (EPUK)</b>												
5.1) Expeditionary Pack Up Kits		2012	TBD / TBD	C / FFP	NAVSUP	Apr 2012	Jun 2012	1	353,230.00	Y		Jan 2012

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**Exhibit P-5A, Budget Procurement History and Planning:** PB 2013 Navy **Date:** February 2012

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4265 - Other Aviation Support Equipment	<b>Aggregated Item Name:</b> Other Aviation Support Equipment
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Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty <small>(Each)</small>	Unit Cost <small>(\$)</small>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
5.1) Expeditionary Pack Up Kits		2013	TBD / TBD	C / FFP	NAVSUP	Apr 2013	Jun 2013	1	913,220.00	Y		Jan 2013
<b>6) Automated Data Capture System (ADCS)</b>												
6.1) ADCS Hardware		2012	TBD / TBD	C / TBD	TBD	Feb 2012	Apr 2012	20	4,000.00	Y		
6.1) ADCS Hardware		2013	TBD / TBD	C / TBD	TBD	Feb 2013	Apr 2013	20	4,000.00	Y		
6.2) ADCS Software		2012	TBD / TBD	C / TBD	CCE, Alexandria, VA	Feb 2012	Mar 2012	1	347,000.00	Y		Jan 2012
6.2) ADCS Software		2013	TBD / TBD	C / TBD	CCE, Alexandria, VA	Feb 2013	Mar 2013	1	391,000.00	Y		Jan 2013

**Remarks:**

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy							<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3				<b>P-1 Line Item Nomenclature:</b> 4265 - Other Aviation Support Equipment				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ALIS SHIP INSTALLATION S7910 - 1				

<b>Models of Systems Affected:</b> CVN, LHD, & LHA			<b>Type Modification:</b> Add Capability					<b>Related RDT&amp;E PEs:</b>				
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	6.829	5.381	5.665	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.875
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	6.829	5.381	5.665	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.875
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>6.829</b>	<b>5.381</b>	<b>5.665</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>17.875</b>

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

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

**Description:**

Autonomic Logistics Information System (ALIS) Ship Installation. Funding will be used to install JSF computer hardware at the appropriate security levels, providing Navy's Local Area Network (LAN/WAN) networks ability to transfer critical time sensitive data for JSF in support of aircraft logistics, mission planning, execution and debriefing.

ALIS cost codes S7044, S7834, and S7910 moves to BLI 4267 beginning FY13.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy									<b>Date:</b> February 2012				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3				<b>P-1 Line Item Nomenclature:</b> 4265 - Other Aviation Support Equipment					<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ALIS SHIP INSTALLATION S7910 - 1				
<b>Models of Systems Affected:</b> CVN, LHD, & LHA			<b>Type Modification:</b> Add Capability					<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total		
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
<b>Procurement</b>													
ALIS SHIP INSTALLATION S7910													
B Kits													
NonRecurring													
1.1.1) INSTALLATION KITS - NonOrganic <sup>(1)</sup>													
	-	-	1	0.750	1	0.750	-	-	-	-	-	-	
1.1.2) INSTALLATION KITS NONRECURRING - Organic													
	-	-	-	1.248	-	-	-	-	-	-	-	-	
<i>Subtotal NonRecurring</i>													
		0.000		1.998		0.750		0.000		0.000		0.000	
<i>Total, ALIS SHIP INSTALLATION S7910</i>													
	-	-	1	1.998	1	0.750	-	-	-	-	-	-	
<i>Total, All Modifications</i>													
		0.000		1.998		0.750		0.000		0.000		0.000	
<b>Support</b>													
2.1) C41 Integration													
	-	3.561	-	2.383	-	2.511	-	-	-	-	-	-	
2.2) Interim Contractor Support													
	-	3.268	-	1.000	-	0.530	-	-	-	-	-	-	
<i>Total Support Cost</i>													
		6.829		3.383		3.041		0.000		0.000		0.000	
<i>Procurement Cost (Procurement + Support)</i>													
		6.829		5.381		3.791		0.000		0.000		0.000	
<i>Total Installation Cost</i>													
		0.000		0.000		1.874		0.000		0.000		0.000	
<b>Total Cost (Procurement + Support + Installation)</b>													
		6.829		5.381		5.665		0.000		0.000		0.000	
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
<b>Procurement</b>													
ALIS SHIP INSTALLATION S7910													
B Kits													
NonRecurring													
1.1.1) INSTALLATION KITS - NonOrganic <sup>(1)</sup>													
	-	-	-	-	-	-	-	-	-	-	2	1.500	
1.1.2) INSTALLATION KITS NONRECURRING - Organic													
	-	-	-	-	-	-	-	-	-	-	-	1.248	
<i>Subtotal NonRecurring</i>													
		0.000		0.000		0.000		0.000		0.000		2.748	
<i>Total, ALIS SHIP INSTALLATION S7910</i>													
	-	-	-	-	-	-	-	-	-	-	2	2.748	
<i>Total, All Modifications</i>													
		0.000		0.000		0.000		0.000		0.000		2.748	

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4265 - Other Aviation Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ALIS SHIP INSTALLATION S7910 - 1

<b>Models of Systems Affected:</b> CVN, LHD, & LHA	<b>Type Modification:</b> Add Capability	<b>Related RDT&amp;E PEs:</b>
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Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
<b>Support</b>												
2.1) C41 Integration	-	-	-	-	-	-	-	-	-	-	-	8.455
2.2) Interim Contractor Support	-	-	-	-	-	-	-	-	-	-	-	4.798
<b>Total Support Cost</b>		0.000		0.000		0.000		0.000		0.000		13.253
<b>Procurement Cost (Procurement + Support)</b>		0.000		0.000		0.000		0.000		0.000		16.001
<b>Total Installation Cost</b>		0.000		0.000		0.000		0.000		0.000		1.874
<b>Total Cost (Procurement + Support + Installation)</b>		0.000		0.000		0.000		0.000		0.000		17.875

**Remarks:**  
<sup>(1)</sup>Note: BLI 4265 procures 1 install kit in FY12 to be installed in FY13, under BLI 4267.

**Manufacturer Information: ALIS SHIP INSTALLATION S7910**

Manufacturer Name: Northrop Grumman				Manufacturer Location: San Diego, CA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 4			
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Oct 2010	Oct 2011					
Delivery Dates	Sep 2011	Oct 2012					

**Installation: ALIS SHIP INSTALLATION S7910**      **Method of Implementation:** ALTERATION INSTALLATION TEAM      **Installation Name:** INSTALLATION KITS

Installation Cost	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M )
All Prior Years	-	-	-	-	-	-	-	-	-	-	-	-
FY 2011	-	-	-	-	1	1.874	-	-	-	-	-	-
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-



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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4265 - Other Aviation Support Equipment	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ALIS SHIP INSTALLATION S7910 - 1

<b>Models of Systems Affected:</b> CVN, LHD, & LHA	<b>Type Modification:</b> Add Capability	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> ALIS SHIP INSTALLATION S7910	<b>Method of Implementation:</b> ALTERATION INSTALLATION TEAM	<b>Installation Name:</b> INSTALLATION KITS
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Installation Cost	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M)	Qty (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	1.874	-	-	-	-	-	-

Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	-	-	-	-	-	-	-	-	-	-	-	-
FY 2011	-	-	-	-	-	-	-	-	-	-	1	1.874
FY 2012	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	1	1.874

Installation Schedule																														
APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4267 - Autonomic Logistics Information System (ALIS)

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

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	3.826	-	3.826	4.869	5.592	5.647	5.744	43.524	69.202
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	-	3.826	-	3.826	4.869	5.592	5.647	5.744	43.524	69.202
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	3.826	-	3.826	4.869	5.592	5.647	5.744	43.524	69.202

*(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:**

[P3A / ALIS SHIP INSTALLATION S7910]: Autonomic Logistics Information System (ALIS) Ship Integration - CVN and LHD (S7044):  
ALIS controls all aspects of aircraft mission planning, maintenance, logistics, and supply functions. ALIS Ship Integration efforts will ensure the ship modification and classified/unclassified network integration, as well as installing related equipment, conducting security accreditation, and verifying system operations. Funding supports the integration with Shipboard Command, Control, Communications and Computers & Intelligence (C4I) Networks on CVNs and LHDs to support ALIS installation and Prognostic Health Management (PHM) downlink. Funding will be used to install JSF computer hardware at the appropriate security levels, providing Navy's Local Area Networks/Wide Area Network (LAN/WAN) networks ability to transfer critical time sensitive data for JSF in support of aircraft logistics, mission planning, execution and debriefing.

Funding was transferred from BLI 4265 starting in FY13.

Item Schedule		ID CD	Prior Years			FY 2011			FY 2012			FY 2013 Base			FY 2013 OCO			FY 2013 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
ALIS SHIP INSTALLATION S7910 - 1	P3A		-	-	0.000	-	-	0.000	-	-	0.000	-	-	3.826	-	-	0.000	-	-	3.826
<b>Total Gross/Weapon System Cost</b>					-			-			-			3.826			-			3.826

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**Exhibit P-40, Budget Item Justification Sheet:** PB 2013 Navy **Date:** February 2012

**Appropriation / Budget Activity / Budget Sub Activity:**  
1810N : Other Procurement, Navy / BA 3 : Aviation Support Equipment / BSA 3 : Aircraft Support Equipment

**P-1 Line Item Nomenclature:**  
4267 - Autonomic Logistics Information System (ALIS)

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

Item Nomenclature*	Exhibits	ID CD	FY 2014			FY 2015			FY 2016			FY 2017			To Complete			Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
ALIS SHIP INSTALLATION S7910 - 1	P3A		-	-	4.869	-	-	5.592	-	-	5.647	-	-	5.744	-	-	43.524	-	-	69.202
<b>Total Gross/Weapon System Cost</b>					<b>4.869</b>			<b>5.592</b>			<b>5.647</b>			<b>5.744</b>			<b>43.524</b>			<b>69.202</b>

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Justification:**

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy							<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3			<b>P-1 Line Item Nomenclature:</b> 4267 - Autonomic Logistics Information System (ALIS)				<b>Modification Nomenclature</b> <i>(Modification Title, Modification Number):</i> ALIS SHIP INSTALLATION S7910 - 1					
<b>Models of Systems Affected:</b> CVN, LHD, & LHA			<b>Type Modification:</b> Add Capability				<b>Related RDT&amp;E PEs:</b>					

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	3.826	0.000	3.826	4.869	5.592	5.647	5.744	43.524	69.202
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	0.000	0.000	3.826	0.000	3.826	4.869	5.592	5.647	5.744	43.524	69.202
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>3.826</b>	<b>0.000</b>	<b>3.826</b>	<b>4.869</b>	<b>5.592</b>	<b>5.647</b>	<b>5.744</b>	<b>43.524</b>	<b>69.202</b>

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

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

**Description:**

[C41 Integration] Autonomic Logistics Information System (ALIS) Ship Installation. Funding will be used to install JSF computer hardware at the appropriate security levels, providing Navy's Local Area Networks/Wide Area Network (LAN/WAN) networks .

Note: Funding realigned from BLI 4265 cost codes S7044, S7834, and S7910 to BLI 4267 starting in FY13. Total column on BLI 4267 does not include FY12 and prior data.

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<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy								<b>Date:</b> February 2012					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3				<b>P-1 Line Item Nomenclature:</b> 4267 - Autonomic Logistics Information System (ALIS)				<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ALIS SHIP INSTALLATION S7910 - 1					
<b>Models of Systems Affected:</b> CVN, LHD, & LHA			<b>Type Modification:</b> Add Capability					<b>Related RDT&amp;E PEs:</b>					
Financial Plan	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total		
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
<b>Procurement</b>													
ALIS SHIP INSTALLATION S7910													
B Kits													
Recurring													
1.1.1) INSTALLATION KITS - NonOrganic <sup>(1)</sup>													
	-	-	-	-	1	0.000	1	0.750	-	-	1	0.750	
<i>Subtotal Recurring</i>		0.000	0.000			0.000	0.750	0.000		0.750			
<i>Total, ALIS SHIP INSTALLATION S7910</i>		-	-	-	-	1	0.000	1	0.750	-	-	1	0.750
<i>Total, All Modifications</i>			0.000		0.000		0.000		0.750		0.000		0.750
<b>Support</b>													
2.1) C41 Integration													
2.2) Interim Contractor Support													
<i>Total Support Cost</i>			0.000		0.000		0.000		1.172		-		1.172
<i>Procurement Cost (Procurement + Support)</i>			0.000		0.000		0.000		2.093		0.000		2.093
<i>Total Installation Cost</i>			0.000		0.000		0.000		1.733		0.000		1.733
<b>Total Cost (Procurement + Support + Installation)</b>			<b>0.000</b>		<b>0.000</b>		<b>0.000</b>		<b>3.826</b>		<b>0.000</b>		<b>3.826</b>
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total		
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
<b>Procurement</b>													
ALIS SHIP INSTALLATION S7910													
B Kits													
Recurring													
1.1.1) INSTALLATION KITS - NonOrganic <sup>(1)</sup>													
	1	0.750	1	0.750	1	0.750	1	0.750	11	8.250	17	12.000	
<i>Subtotal Recurring</i>		0.750	0.750		0.750	0.750	0.750	8.250		8.250		12.000	
<i>Total, ALIS SHIP INSTALLATION S7910</i>		1	0.750	1	0.750	1	0.750	1	0.750	11	8.250	17	12.000
<i>Total, All Modifications</i>			0.750		0.750		0.750		0.750		8.250		12.000
<b>Support</b>													
2.1) C41 Integration													
	-	2.261	-	2.889	-	2.465	-	2.531	-	11.292	-	22.610	

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4267 - Autonomic Logistics Information System (ALIS)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ALIS SHIP INSTALLATION S7910 - 1

<b>Models of Systems Affected:</b> CVN, LHD, & LHA	<b>Type Modification:</b> Add Capability	<b>Related RDT&amp;E PEs:</b>										
Financial Plan	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (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) Interim Contractor Support	-	0.088	-	0.145	-	0.593	-	0.593	-	1.590	-	3.180
<b>Total Support Cost</b>		2.349		3.034		3.058		3.124		12.882		25.790
<b>Procurement Cost (Procurement + Support)</b>		3.099		3.784		3.808		3.874		21.132		37.790
<b>Total Installation Cost</b>		1.770		1.808		1.839		1.870		22.392		31.412
<b>Total Cost (Procurement + Support + Installation)</b>		4.869		5.592		5.647		5.744		43.524		69.202

**Remarks:**  
(1)Note: BLI 4265 procures 1 install kit in FY12 to be installed in FY13, under BLI 4267.

<b>Manufacturer Information: ALIS SHIP INSTALLATION S7910</b>							
Manufacturer Name: Northrop Grumman				Manufacturer Location: San Diego, CA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 4			
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates			Oct 2012				
Delivery Dates			Oct 2013				

<b>Installation: ALIS SHIP INSTALLATION S7910</b>			<b>Method of Implementation: ALTERNATION INSTALLATION TEAM</b>				<b>Installation Name: INSTALLATION KITS</b>					
Installation Cost	Prior Years		FY 2011		FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	-	-	-	-	-	-	-	-	-	-	-	-
FY 2011	-	-	-	-	-	-	-	-	-	-	-	-
FY 2012	-	-	-	-	-	-	1	1.733	0	0.000	1	1.733
FY 2013	-	-	-	-	-	-	-	-	-	-	-	-
FY 2014	-	-	-	-	-	-	-	-	-	-	-	-
FY 2015	-	-	-	-	-	-	-	-	-	-	-	-
FY 2016	-	-	-	-	-	-	-	-	-	-	-	-
FY 2017	-	-	-	-	-	-	-	-	-	-	-	-
To Complete	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	1	1.733	0	0.000	1	1.733

**UNCLASSIFIED**

<b>Exhibit P-3A, Individual Modification:</b> PB 2013 Navy		<b>Date:</b> February 2012
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1810N / BA 3 / BSA 3	<b>P-1 Line Item Nomenclature:</b> 4267 - Autonomic Logistics Information System (ALIS)	<b>Modification Nomenclature</b> ( <i>Modification Title, Modification Number</i> ): ALIS SHIP INSTALLATION S7910 - 1

<b>Models of Systems Affected:</b> CVN, LHD, & LHA	<b>Type Modification:</b> Add Capability	<b>Related RDT&amp;E PEs:</b>
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<b>Installation:</b> ALIS SHIP INSTALLATION S7910	<b>Method of Implementation:</b> ALTERNATION INSTALLATION TEAM	<b>Installation Name:</b> INSTALLATION KITS
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Installation Cost	FY 2014		FY 2015		FY 2016		FY 2017		To Complete		Total	
	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	-	-	-	-	-	-	-	-	-	-	-	-
FY 2011	-	-	-	-	-	-	-	-	-	-	-	-
FY 2012	-	-	-	-	-	-	-	-	-	-	1	1.733
FY 2013	1	1.770	-	-	-	-	-	-	-	-	1	1.770
FY 2014	-	-	1	1.808	-	-	-	-	-	-	1	1.808
FY 2015	-	-	-	-	1	1.839	-	-	-	-	1	1.839
FY 2016	-	-	-	-	-	-	1	1.870	-	-	1	1.870
FY 2017	-	-	-	-	-	-	-	-	1	1.866	1	1.866
To Complete	-	-	-	-	-	-	-	-	10	20.526	10	20.526
<b>Total</b>	<b>1</b>	<b>1.770</b>	<b>1</b>	<b>1.808</b>	<b>1</b>	<b>1.839</b>	<b>1</b>	<b>1.870</b>	<b>11</b>	<b>22.392</b>	<b>16</b>	<b>31.412</b>

Installation Schedule																														
APY	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				TC	Tot
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	11	16
Out	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	11	16