UNITED STATES AIR FORCE

Committee Staff Procurement Backup Book

Fiscal Year (FY) 2010 Budget Estimates



May 2009

MISSILE PROCUREMENT, AIR FORCE

OPR: SAF/FMB

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FISCAL YEAR (FY) 2010 BUDGET ESTIMATES

MAY 2009

SECTION 1:

SUMMARY MATERIAL

Department of the Air Force FY 2010/2011 President's Budget Exhibit P-1

Summary (Dollars in Millions)

APPROPRIATION: Missile Procurement. Air Force

APPROPRIATION: MISSITE PROCUREMENT, ALL POICE			
Budget Activity	FY 2008	FY 2009	FY 2010
01. Ballistic missiles	32.0	32.3	58,1
02. Other missiles	560.2	679.2	638.6
03. Modification of inservice missiles	523.3	305.9	230.1
04. Spares and repair parts	44.2	21.1	70.2
05. Other support	3,870.2	4,379.6	5,303.8
TOTAL Missile Procurement, Air Force	5,029.9	5,418.1	6,300.7

05 MAY 2009

Department of the Air Force FY 2010/2011 President's Budget Exhibit P-1

(Dollars in Millions)

APPROPRIATION: 3020F Missile Procurement, Air Force DATE: 05 MAY 2009

LINE	IDENT	FY 2	008	FY 3	2009	FY	2010	S £
NO ITEM NOMENCLATURE	CODE	Quantity	Cost	Quantity	Cost	Quantity		_ C
BUDGET ACTIVITY 01: Ballistic missiles								
MISSILE REPLACEMENT EQUIPMENT - BALLISTIC								
1 MISSILE REPLACEMENT EQ-BALLISTIC	A		32.0		32.3		58.1	U
TOTAL Ballistic missiles			32.0		32.3		58.1	
BUDGET ACTIVITY 02: Other missiles								
TACTICAL								
2 JASSM	A	111	160.0	175	199.7		52.7	U
3 SIDEWINDER (AIM-9X)	A	149	52.3	163	77.0	219	78.8	U
4 AMRAAM	A	133	190.8	133	203.8	196	291.8	U
5 PREDITOR HELLFIRE MISSILE	A	770	60.0	642	63.4	792	79.7	U
6 SMALL DIAMETER BOMB	A	1395	94.7	2612	132.8	2340	134.8	U
INDUSTRIAL FACILITIES								
7 INDUSTR'L PREPAREDNS/POL PREVENTION	A		2.4		2.4		. 8	U
TOTAL Other missiles			560.2		679.2		638.6	
BUDGET ACTIVITY 03: Modification of inserv	ice missiles							
CLASS IV								
8 ADVANCED CRUISE MISSILE	A		. 6		+		*	U
9 MM III MODIFICATIONS	A		512.4		295.5		199.5	U
10 AGM-65D MAVERICK	A		.3		. 3		.3	U
11 AGM-88A HARM	А						30.3	Ų

Exhibit P-1: Total (Direct and Supplementals), as of May 5, 2009 at 12:40:13

Department of the Air Force FY 2010/2011 President's Budget Exhibit P-1 (Dollars in Millions)

APPROPRIATION: 3020F Missile Procurement, Air Force

LINE	IDENT	FY 2	008	FY 20	009	FY	2010	S E
NO ITEM NOMENCLATURE	CODE	Quantity	Cost	Quantity	Cost	Quantity		c
12 AIR LAUNCH CRUISE MISSILE (ALCM)	A		10.0		10.1			Ü
TOTAL Modification of inservice missiles		***	523.3		305.9		230.1	
BUDGET ACTIVITY 04: Spares and repair parts								
MISSILE SPARES + REPAIR PARTS								
13 INITIAL SPARES/REPAIR PARTS	Α		44.2		21.1		70.2	U
TOTAL Spares and repair parts			44.2		21.1		70.2	
BUDGET ACTIVITY 05: Other support								
SPACE PROGRAMS								
14 ADVANCED EHF LESS: ADVANCE PROCUREMENT (PY)	A		(.7)		(16.1)		(2,142.2) (-298.7)	
			.7		16.1		1,843.5	
15 ADVANCED EHF ADVANCE PROCUREMENT (CY) (FY 2008 FOR FY 2010) (MEMO)			149.2 (149.2)		149.6			U
(FY 2009 FOR FY 2010) (MEMO)			(143.2)		(149.6)			
16 WIDEBAND GAPFILLER SATELLITES (SPACE) LESS: ADVANCE PROCUREMENT (PY)	A		(363.0) (-50.7)		(21.6)		(201.7)	U
			312.3		21.6		201.7	
17 WIDEBAND GAPFILLER SATELLITES (SPACE) ADVANCE PROCUREMENT (CY) (FY 2010 FOR FY 2011) (MEMO)							62.4 (62.4)	
18 SPACEBORNE EQUIP (COMSEC)	A		18.1		17.3		9.9	U

Exhibit P-1: Total (Direct and Supplementals), as of May 5, 2009 at 12:40:13

DATE: 05 MAY 2009

Department of the Air Force FY 2010/2011 President's Budget Exhibit P-1

(Dollars in Millions)

APPROPRIATION: 3020F Missile Procurement, Air Force

LINE	IDENT	FY 2008	FY 2009	FY 2010	S E
NO ITEM NOMENCLATURE	CODE	Quantity Cos		Quantity Cost	_ C
19 GLOBAL POSITIONING (SPACE) LESS: ADVANCE PROCUREMENT (PY)	A	(227.	8) (117.5) (-10.0)	•	
		227.		53.1	
20 GLOBAL POSITIONING (SPACE) ADVANCE PROCUREMENT (CY) (FY 2008 FOR FY 2009) (MEMO)		10. (10.			υ
(FY 2009 FOR FY 2010) (MEMO)			(2.4)		
21 NUDET DETECTION SYSTEM	A		1.2		U
22 DEF METEOROLOGICAL SAT PROG(SPACE)	A	115.	8 97.8	97.8	U
23 TITAN SPACE BOOSTERS(SPACE)	A		*		U
24 EVOLVED EXPENDABLE LAUNCH VEH(SPACE)	A	4 1,091.	8 4 1,350.3	5 1,295.3	U
25 MEDIUM LAUNCH VEHICLE(SPACE)	A	116.	9 5.7		U
26 SBIR HIGH (SPACE) LESS: ADVANCE PROCUREMENT (PY)	A		2 (2,054.4) (-395.3)	1 (361.3) (-53.8)	
		~ -	1,659.1	307.5	
27 SBIR HIGH (SPACE) ADVANCE PROCUREMENT (CY) (FY 2008 FOR FY 2009) (MEMO)		395. (395.		159.0	U
(FY 2009 FOR FY 2010) (MEMO) (FY 2010 FOR FY 2011) (MEMO)		,,,,,	(53.8)	(159.0)	
28 NATL POLAR-ORBITING OP ENV SATELLITE	A			3.9	U
SPECIAL PROGRAMS					
29 DEFENSE SPACE RECONN PROGRAM	A	183.	0 158.5	105.2	U

Exhibit P-1: Total (Direct and Supplementals), as of May 5, 2009 at 12:40:13

DATE: 05 MAY 2009

FISCAL YEAR (FY) 2010 BUDGET ESTIMATES

MAY 2009

SECTION 2:

BUDGET APPENDIX EXTRACT LANGUAGE

Budget Appendix Extract Language Fiscal Year 2010 Budget Estimate Missile Procurement, Air Force

For construction, procurement, and modification of missiles, spacecraft, rockets, and related equipment, including spare parts and accessories therefor, ground handling equipment, and training devices; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erections of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things; \$6,300,728,000 to remain available for obligations until September 30, 2012.

In accordance with the President's Management Agenda, Budget and Performance Integration initiative, these programs have been assessed using the Program Assessment Rating Tool (PART). Remarks regarding program performance and plans for performance improvement can be located at the Expectmore.gov website.

FISCAL YEAR (FY) 2010 BUDGET ESTIMATES

MAY 2009

SECTION 3:

P-1 LINE ITEM DETAIL

FISCAL YEAR (FY) 2010 BUDGET ESTIMATES BUDGET ACTIVITY 01 – BALLISTIC MISSILES MAY 2009

PAGE 1 – 0

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE: MAY 2009					
APPROP CODE/BA:			P-1 NOMENCLATURE:							
MPAF/MISSILE SUPPORT EQU	JIPMENT		MISSILE REPLA	ACEMENT EC	(UIPMENT-BA	LLISTIC/TACTIC	AL (OVERVIE)	VV)		
	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015		
QUANTITY										
COST (in Thousands)	\$32,013	\$32,301	\$58,139							
Description:										
and other missile weapon syste (base/field) launch control facility. FY10 funding provides replace These items will increase ballist capability. The program supportingh-Speed Anti-Radiation Mi Materiel Command (AFMC), A	nt organizational and intermedians. Equipment procured is use lities, as well as missile testing ment support equipment items stic and tactical missile system of the missile weapon systems such saile (AGM-88A). Requirement are Combat Command (ACC) a splayed on the attached P-40A. irements.	ed for missil facilities. for an aging reliability are has the Mints are jointly and Air Force	de weapon system g inventory of econd maintainabili nuteman (LGM- ly determined by the Space Comma	ns maintenanguipment which ty by providing 30), Advance Headquarter and (AFSPC)	ch has becoming state-of-thed Medium Risk United State and are based	g at organization the increasingly report of the eart maintenant ange Air-to-Air tes Air Force (Hod on established	more costly to ace repair and r Missile (AIM IQ USAF), And d allowance st	maintain. testing M-120) and ir Force andards.		
	P-1 ITEM NO 1		PAGE 1	NO:			Page 1 of	1		

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A)	DATE:	MAY 2009
--	-------	----------

APPROP CODE/BA:

P-1 NOMENCLATURE:

MPAF/MISSILE SUPPORT EQUIPMENT

MISSILE REPLACEMENT EQUIPMENT-BALLISTIC/TACTICAL (OVERVIEW)

PROCUREMENTITEMS ID CODE QT		F	Y2008	FY2009		FY2010		FY2011	
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST
EXPLOSIVE SET CIRCUITRY TEST SET	А	5	\$5,863	48	\$5,714	17	\$2,492		
MISSILE TRANSPORTER TRACTOR TRAILER	A	14	\$8,830						
BALLISTIC ITEMS LESS THAN 5 MILLION DOLLARS	A		\$9,540		\$18,987		\$8,185		
TACTICAL/OTHER ITEMS LESS THAN 5 MILLION DOLLARS	А		\$7,780		\$7,600		\$7,462		
ALIGNMENT SET TEST SET (ASTS) REPLACEMENT	А					2	\$27,500		
MM POWER PANELS	А						\$12,500		
TOTALS:		19	\$32,013	48	\$32,301	19	\$58,139		

Remarks:

Cost information is in thousands of dollars.

P-1 ITEM NO	PAGE NO:	Page 1 of 1
1	2	1 age 1 of 1

BUDGET ITEM JUSTIFICA	ATION (EXHIBIT P-40)					DATE: MAY	2009	
APPROP CODE/BA:			P-1 NOMENCE	_ATURE:		<u> </u>		
MPAF/MISSILE SUPPORT EQU	JIPMENT		EXPLOSIVE SE	T CIRCUITRY	TEST SET			
	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015
QUANTITY								
COST (in Thousands)	\$5,863	\$5,714	\$2,492					
Description:								
ground umbilical cabling testing an average of twelve dispatche ESCTS daily on reentry system performing check out procedur in 1994. Existing test sets can operational ESCTS are being capability for the test set began Items requested in FY10 are id	ground equipment. The ESCTS ag, and electro-explosive ordnants per week per missile wing by as conducting up to ten tests on res on eighty different sets of call to be refurbished again since of annibalized to sustain the minima to negatively affect depot and the entified on the following P-5 are eded to support current Air Force	nce firing cirmissile mai each. The each bles. Due to bsolete internum 77 test field activitied are represented are represente	rcuits resistance ntenance teams. electronics lab us o significantly degrated circuit can sets required to ies in early 2006 sentative of item	testing for a Weapon States the ESC legrading controls are no los support the	ll stages of the orage Area (VITS constantly inponents, 10 onger supportants user communications)	ne missile. This WSA) personne for assembling 6 test sets were able and spares nity. Parts supp	portable test of at the wings of missile guidant overhauled and are not availal ortability and	set is used on use the ance sets and ad refurbished ble. Non-repair
	P-1 ITEM NO 1		PAGE 3	NO:			Page 1 of	1

WEAPON SYSTEM COST ANALYSIS (E	/EAPON SYSTEM COST ANALYSIS (EXHIBIT P-5))9		
APPROP CODE/BA:			P-1 NO	OMENCL	ATUR	E:							
MPAF/MISSILE SUPPORT EQUIPMENT			EXPLOSIVE SET CIRCUITRY TEST SET										
WEAPON SYSTEM	ID		FY200	FY2008		FY2009		FY2010		0	FY2011		1
COST ELEMENTS	CODE	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	OTAL OTY U	Unit Cost	TOTAL COST
ESCTS TEST SET ENGINEERING/DEVELOPMENT FIRST ARTICLE	А	5	\$1,057,400	\$5,287									
PRODUCTION ENGINEERING				\$426			\$424			\$424			
FACILITIES FEE				\$150			\$150			\$150			
PRODUCTION UNITS	А				48	\$107,083	\$5,140	17	\$112,824	\$1,918			
TOTALS:		5		\$5,863	48		\$5,714	17		\$2,492			
P-1 ITEM N 0	0			PAGE	NO:					Pa	age 1	of 1	

BUDGET PROCUREMEN	T HISTORY PLA	ANNING (EXHIBIT P-	5A)		DA	TE: MA`	Y 2009				
APPROP CODE/BA:				P-1 NO	MENCLATUR	E:						
MPAF/MISSILE SUPPORT EQU	JIPMENT			EXPLOSIVE SET CIRCUITRY TEST SET								
ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION O	OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL		
ESCTS TEST SET ENGINEERING/DEVELOPMENT FIRST ARTICLE												
FY2008(1)	5	\$1,057,400	AFMC/OO-	-ALC	OPT/CPAF	EDO CORPORATIONGLOBAL TECHNOLOGY REACH, TECHNICAL SERVICES OPERATIONS/ LANCASTER, CA	Oct-07	Apr-08				
PRODUCTION UNITS												
FY2009	48	\$107,083	AFMC/OO-	-ALC	OPT/CPAF	EDO CORPORATIONGLOBAL TECHNOLOGY REACH, TECHNICAL SERVICES OPERATIONS/ LANCASTER, CA	May-09	Apr-10				
FY2010	17	\$112,824	AFMC/OO-	-ALC	OPT/CPAF	EDO CORPORATIONGLOBAL TECHNOLOGY REACH, TECHNICAL SERVICES OPERATIONS/ LANCASTER, CA	Mar-10	Mar-11	Yes			
Remarks: Cost information is in actual do (1) Contract F2610-98-C-0001		ptions										
	P-1 ITEM NO)			PAGENO:			Page	1 of 1			

BUDGET ITEM JUSTIFICA	ATION (EXHIBIT P-40)					DATE: MAY	2009	
APPROP CODE/BA:			P-1 NOMENCI	LATURE:				
MPAF/MISSILE SUPPORT EQU	JIPMENT		MISSILE TRANS	SPORTER TR	ACTOR TRAI	LER		
	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015
QUANTITY								
COST (in Thousands)	\$8,830	\$0	\$0					
Description:								
environmentally store assemble booster transfers through the fr trailers show signs of structura bonding is losing integrity with configuration required to mate transport. Regular maintenance	ental Ballistic Missile transported Minuteman boosters (Stages ont or back of its climate-control failures. Trailers exhibit evidenage. Stress cracks have also be with the trailer's unique king pie has become exceedingly difficultate price. This highly special is a special of the control of	olled interior of delation found in location.	en missile wings or. Fifteen traile minating honey on the trailer und Substitute tractor parts obsolescen	s and flight te ers were put in comb side pa er-carriage. ors in use at t ce. Estimate	est and overhanto service in anels that com The tractor has the missile with the missile wi	aul repair facilit 1991-1993. Cu apromise its stru as a non-industr ings have been obishment cost e	ies. The Minuarrenly, all instituted integrity standard who deemed unsafexceeds sevent	spected ty. Panel teel te for off-base ty-five
	P-1 ITEM NO		PAGE	NO:			Dogg 1 of	1
	1		6				Page 1 of	I

WEAPON SYSTEM COST ANALYS	SIS (EXHIBIT P-5)								DATE:	MAY 20	09		
APPROP CODE/BA:			P-1 NOMENCLATURE:										
MPAF/MISSILE SUPPORT EQUIPMENT			MISSIL	MISSILE TRANSPORTER TRACTOR TRAILER									
WEAPON SYSTEM	ID.		FY200	FY2008		FY200)9	FY2010		0	FY2011		1
COST ELEMENTS	ID CODE	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
PRODUCTION	A	14	\$620,000	\$8,680									
TOOLING	A	1	\$150,000	\$150									
TOTALS:		15		\$8,830									
P-1 IT	TEM NO 1			PAGE	NO:					Р	age 1	of 1	

BUDGET PROCUREMENT	BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)												
APPROP CODE/BA: MPAF/MISSILE SUPPORT EQU	JIPMENT			P-1 NOMENCLATURE: MISSILE TRANSPORTER TRACTOR TRAILER									
ITEM NAME/ FISCAL YEAR	QTY. UN	IIT ST LO	LOCATION OF PCO		CONTRACT METHOD & TYPE	METHOD & CONTRACTOR		DATE D. FIRST E DEL.	SPECS AVAIL NOW	DATE REV. AVAIL			
PRODUCTION													
FY2008(1)	14 \$	620,000	AFMC/OO-/	ALC	OPT/CPAF	WILLIAMSEN MANUFACTURING/S/ LAKE CITY, UT	ALT Sep-	08 Sep-09					
TOOLING													
FY2008	1 \$	150,000	AFMC/OO-ALC		OPT/CPAF	WILLIAMSEN MANUFACTURING/S/ LAKE CITY, UT	ALT Sep-	08 Sep-09					
Cost information is in actual do (1) Basic Contract FA8204-08-	-C-0021 was awarded	in FY08 v	vith a basi	c perfor									
	P-1 ITEM NO 1				PAGE NO :			Pag	e 1 of 1				

BUDGET ITEM JUSTIFICAT	ΓΙΟΝ (EXHIBIT P-				1	DATE: MAY	2009					
APPROP CODE/BA:				P-1 NOMENCLATURE:								
MPAF/MISSILE SUPPORT EQUIP	PMENT			BALLISTIC MIS	SILE ITEMS L	ESS THAN \$5	MILLION					
	F	Y2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015			
QUANTITY												
COST (in Thousands)		\$9,540	\$18,987	\$8,185								
Description:						•						
procured is used for missile wear testing facilities. Procurement of will also ensure Air Force person determined by Headquarters Uni- established tables of allowances. FY09 funding reflects an increase obsolescence factors and required. Items requested in FY10 are identified based on critical equipment need.	f the items will redunnel accomplish cost ted States Air Force No individual proceed priority for Minuaggressive replacematified on the follow	t effective (HQ USA curement teman III nent. Fail	ime and delate maintenand AF), Air For item in this of support equals and are report are report and are report are report are report are report and are repo	ays due to schedule and ce on schedule and ce Materiel Concategory exceeds a sipment. The Electron assets will presentative of incomments of incomments and contact the second contact and	luling and not and will increase mmand (AFM) as \$5 million. Hectronic Systems in the state of th	on-availability of ease missile reader. MC), and Air Formation of the missile reader. Test Station impact Minuter.	of critical test adiness. Required orce Space Coomer Space Coomer are now expand man missile when the control of the cooperation of the cooperatio	equipment. Tirements are joint of the command (AFS) experiencing signature apon system	hese items pintly PC), based on gnificant readiness.			
	P-1 ITEM NO 1			PAGE 9	NO:			Page 1 of	1			

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL) APPROP CODE/BA: MPAF/MISSILE SUPPORT EQUIPMENT P-1 NOMENCLATURE: BALLISTIC MISSILE ITEMS LESS THAN \$5 MILLION

		FY2010		FY2	2011
PROCUREMENTITEMS	NSN	QTY.	COST	QTY.	COST
BALLISTIC MISSILE ITEMS LESS THAN \$5 MILLION					
MINUTEMAN MK12A SERVICE STAR TEST COMPLEX	NSL	1	\$2,000		
ADAPTER SET, TEST	1190011292180NB	1	\$494		
GROUND TEST MISSILE (GTM)	NSL	1	\$3,500		
DYNAMIC BRAKE TEST STAND	4935004097112AH	1	\$275		
PAH SAFETY BARRIER	1450015121933AH	12	\$180		
LOCKING TOOL, RELEASE TLU-403/E	4935001111431AH	13	\$18		
PERSONNEL ALARM SYSTEM (PAS) REPLACEMENT PROGRAM	TBD	160	\$1,718		
TOTALS:			\$8,185		

Remarks:

Cost information is in thousands of dollars.

P-1 ITEM NO	PAGE NO : 10	Page 1 of 1

BUDGET ITEM JUSTIFICA	ATION (EXHIBIT P	-40)				ı	DATE: MAY	2009					
APPROP CODE/BA:				P-1 NOMENCLATURE:									
MPAF/MISSILE SUPPORT EQU	JIPMENT			TACTICAL MISS	SILE ITEMS LE	ESS THAN \$5 N	MILLION	DN .					
		FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015				
QUANTITY						aliar) support equipment for tactical missiles. Com							
COST (in Thousands)		\$7,780	\$7,600	\$7,462									
Description:	·												
(used on more than one weapor requirements. These replacements. These replacements. FY10 funding procures replacements. Medium Range Air-to-Air Mis Launched Cruise Missile (AGNAII) items have an annual value procured. Items procured during	ent items ensure consement support equipment (AMRAAM), How M-88 ALCM).	tinuation of the tent for the t	of serviceable ctical missile Anti-Radiate ested in FY1	e equipment over e systems. The prison Missile (AC	or the life of a program supposed on the following the following supposed on the following supposed on the following supposed on the following supposed on the following supposed suppo	weapon syste orts missile wo I), Air Interce	em. eapons system ptor Missile (and are repres	as such as the AIM-9M) and sentative of ite	Advanced Air-				

BUDGET ITEM JUSTIFICA	UDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL)										
APPROP CODE/BA: MPAF/MISSILE SUPPORTE	QUIPMENT		P-1 NOMENCLATURE: TACTICAL MISSILE ITEM	: IS LESS THAN \$5 MILLION							
			FY201	0		FY2011					
PROCUREMENTITEMS		NSN	QTY.	COST	QT	ΓΥ.	COST				
AGM-88 GUIDED MISSILE LAUNCH TE	EST SET	4935014359534	2	\$2,00	00						
ALCM SUPPORT EQUIPMENT (1)				\$6	67						
AIM-9 SUPPORT EQUIPMENT (1)				\$13	31						
AMRAAM SUPPORT EQUIPMENT (1-2)			\$5,26	64						
TOTALS:				\$7,46	52						
Remarks: Cost information is in thousand (1) Multiple items with an ann (2) AMRAMM support Equip	nual value of less than		sly footnoted in FY09 PE	3 in the P1 line for	spares/repai	r parts.					
	P-1 ITEM NO 1		PAGE NO: 12			Page 1 of	1				

BUDGET ITEM JUSTIFICA	ATION (EXHIBIT P-	40)					DATE: MAY	2009	
APPROP CODE/BA:				P-1 NOMENCI	_ATURE:				
MPAF/MISSILE SUPPORT EQU	IIPMENT			ALIGNMENT SE	T TEST SET	(ASTS) REPL	ACEMENT		
	F	Y2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015
QUANTITY		0	0	2					
COST (in Thousands)		\$0	\$0	\$27,500					
Description:									
complex assembly of the Gyro for the strict accuracy of the M perform operator-selected elemand self-calibration. Actual M tested. This station is experien serviceable condition. There are If this replacement is not funde unobtainable and failures of the Items requested in FY10 are id Force mission requirements.	inuteman III system. The acceptance inuteman III hardware cing several obsolescenter custom assemblies d, failures will only intese custom component	The AST e test sing e is used i ence issue on this startes arts will be	S performs a gly or in an on the ASTS es and the Beation that had availability catastrophic	automatic acceptoperator-selected interface circuit oeing Guidance ave no spares and ty will decrease c.	tance testing d order. The Atry to create the Repair Cented the vendors. It is estimat	of the Minute ASTS also pene most accurate is experience are no longed ed that 30% of	eman alignmenerforms limited rate conditions cing difficulty are supporting.	t sets. The AS automatic star for the Alignment of the sets. The AS automatic star for the Alignment of the sets.	STS can tion self-test nent Set being tation back to obsolete or
	P-1 ITEM NO			PAGE 13				Page 1 of	1

WEAPON SYSTEM COST ANA	ROP CODE/BA: P-1 NOMENCLATUR										09		
APPROP CODE/BA:			P-1 N	IOMENCI	ATUR	E:							
MPAF/MISSILE SUPPORT EQUIPMEN	NT		ALIGN	NMENT SE	T TEST	ΓSET (A	ASTS) REF	PLACE	MENT				
WEAPON SYSTEM	ID		FY20	08		FY200	9		FY201	0		FY201	1
COST ELEMENTS	COD	QT	Y Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
ALIGNMENT SET TEST SET (ASTS) REPLACE	MENT												
ASTS	А							2	2 \$13,750,000	\$27,500			
TOTALS:								2	2	\$27,500			
Р-	1 1TEM NO		PAGI	ENO : 14					Pa	age 1	of 1		

BUDGET PROCUREMEN	T HISTORY P	LANNING (EXHIBIT P-	5 A)			DATE: MA	Y 2009		
APPROP CODE/BA: MPAF/MISSILE SUPPORT EQU	JIPMENT				MENCLATURE MENT SET TEST	SET (ASTS) REPLA	CEMENT			
ITEM NAME/ FISCAL YEAR	QTY.	UNIT COST	LOCATION O	F PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION		DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
ALIGNMENT SET TEST SET (ASTS) REPLACEMENT										
ASTS										
FY2010(1)	2	\$13,750	AFMC/OO-	ALC	SS/CPAF	BOEING/HEATH, O	H Sep-10	Oct-13	Yes	
Initial spares will be procured (1) Basic contract F42610-99-1		000.00) in FY	Y11/12 funds	under co	ontract F42610-9	99-D-0006.				
	P-1 ITEM N 1	10			PAGE NO : 15			Page	1 of 1	

PRESIDENT'S BUDGET	PAF/MISSILE SUPPORT EQUIPMENT ITEM/MANUFACTURER/ PROCUREMENT YEAR ACCEP. PRIOR TO DUE AS OF 1 OCT. AF 2 0 2 IG ALS 2 ACCEP. PRIOR TO 1 OCT. AF 2 0 2 ACCEP. PRIOR TO 1 OCT. AF 2 D 2 ACCEP. PRIOR TO DUE AS OF 1 OCT. ACCEP. BAL PRIOR TO DUE AS OTT.														DATE	Ξ: Μ	IAY 2	2009					
APPROP CODE/BA: MPAF/MISSILE SUPPORT E	EQUIPMI	ENT											(ASTS)	REPLAC	EMENT	Γ							
	OP CODE/BA: MISSILE SUPPORT EQUIPMENT M/MANUFACTURER/ OCUREMENT YEAR AF 2 0 2 UFACTURER'S PRODUCTION RATES AME AND LOCATION MIN SUST 1-8-5 M. EATH OH 1 2										ENDA	R 2009				(CALE	NDAR	2010				
	SERV.			OF 1 OCT.					F	Y2009						FY	2010						
PROCUREMENT YEAR		QII.			ОСТ	NOV [DEC J	IAN F	EB M	MAR AF	PR MA	Y JUN JUL	AUG SEF	OCT NOV [DEC JAN	I FEB MA	AR APF	RMAY	JUN	JUL A	ug s	EP Later	
ASTS																							
FY2010	AF	2	0	2	FY2011																	C 2	
BOEING					2010 CALENDAR 2011 FY2011 OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT ADMIN LEAD TO PRIOR TO 1 OCT AFT																		
TOTALS		2																				2	
					20	010				CALE	ENDA	R 2011				(CALE	NDAR	2012				
	SERV.			OF 1 OCT.			FY2011									FY	2012						
PROCUREMENT YEAR		QII.			ост	NOV E	DEC J	IAN F	EB	MAR AF	PR MA	Y JUN JUL	AUG SEF	OCT NOV	DEC JAN	I FEB MA	AR APF	R MAY	JUN	JUL A	ug s	EP Later	
ASTS														CALENDAR 2010 FY2010 JG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP CALENDAR 2012 FY2012 JG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP PROCUREMENT LEAD TIME IN LEAD TIME TOTAL									
FY2010	AF	2	0	2																		2	
BOEING																							
TOTALS		2		2																		2	
MANUFACTURER'S	,	PR	RODUCTIONR	ATES										PR	OCURE	MENTLI	EADT	IME				l l	
NAMEANDLOCATION	MINS			MAX	Χ							ΑI	OMIN LEA								TOTA	 \ L	
															СТ						1 OC	T	
BOEING/HEATH OH	1			2			INI	ΤΙΔΙ															
BOLING/ILATTI OII	•								- D							- 01				-			
							IXE.	ONDL	-1\														
Remarks:																							
ACHIGI KS.																							
		P-1 ITE	M NO							PAG		D :						Pag	മ 1	 ∩f 1			
		1									16							. uy	O I	5 1 1			

BUDGET ITEM JUSTIFICA	ATION (EXHIBIT P	-40)					DATE : MAY	2009	
APPROPCODE/BA:				P-1 NOMENC	LATURE:				
MPAF/MISSILE SUPPORT EQU	JIPMENT			MM POWER PA	ANELS				
	ı	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015
QUANTITY									
COST (in Thousands)		\$0	\$0						
Description:					1				
This program funds replacement	nt of mission systems	power di	stribution pa	anels at Inter-Co	ontinental Ba	listic Missile	lauch facilities	and missile fa	acilities.
breakers are 40 years old, well SREMP and Power Panels are and new ones cannot be obtain breakers. There currently is not funded safety risks will in conditions, breakers may tear lainappropriately used as switched old power filters will also be resulted in FY10 are id on critical equipment needed to	done together in the sed. The breakers are protection against SI ncrease as replacement ose and cause damages, which further degreplaced within this protection on the followers.	same projected REMP. Bent breaker to the parades the boject.	ect to save me, some are received are received and adjacet and adjacet and adjacet are represented are represe	noney and get the placed with jure continue to degree to be jury rigged acent breakers, as will also be consentative of items	ne best config y rigged one grade, while d and not sec reducing mis orrected in the	guration. Curs that don't fit demands for a urely fit into sion readinesse new design	rent breakers a and don't coor new circuits and the panel, as re- s. Some breakers with breakers of	nd power pane dinate with up d power increa quired by code ers have been designed to be	els are original stream ases. es. Under fault switches. The
	P-1 ITEM NO 1			PAGE				Page 1 of	· 1

BUDGET PROCUREMENT	HISTORY PLANN	IING (E	XHIBIT P-	5A)			DATE: MA	Y 2009		
APPROP CODE/BA: MPAF/MISSILE SUPPORT EQU	IPMENT				MENCLATURE WER PANELS	:				
ITEM NAME/ FISCAL YEAR		NIT OST	LOCATION O	F PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION		DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL
LAUNCH FACILITIES (LF) KITS										
FY2010	75 \$	149,900	AFMC/OO-	ALC	C/FFP W/OPT	UNKNOWN	Sep-10	Nov-10	Yes	
MISSILE ALERT FACILITIES (MAF) KITS										
FY2010	9 \$	139,750	AFMC/OO-	ALC	C/FFP W/OPT	UNKNOWN	Sep-10	Nov-10	Yes	
	P-1 ITEM NO 1				PAGE NO: 18			Page	1 of 1	

WEAPON SYSTEM COST ANALYSIS	(EXHIBIT P-5)					OATE:	MAY 200)9					
APPROP CODE/BA:			P-1 N	OMENC	ATUR	E:							
MPAF/MISSILE SUPPORT EQUIPMENT			MM P	OWER PA	NELS								
WEAPON SYSTEM	ID		FY200)8		FY200)9		FY201	0		FY201	1
COST ELEMENTS	CODE	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST	QTY	Unit Cost	TOTAL COST
LAUNCH FACILITIES (LF) KITS	A							75	\$149,900	\$11,243			
MISSILE ALERT FACILITIES (MAF) KITS	A							9	\$139,750	\$1,258			
TOTALS:								84		\$12,500			
P-1 ITEM	INO			PAGI	E NO : 19					Pa	age 1	of 1	

PRESIDENT'S BUDGE	r PRO	DUCTI	ON SCH	EDULE	(EXHIE	3IT	P-2	21)									DAT	E : \	//AY2	2009					
APPROP CODE/BA: MPAF/MISSILE SUPPORT E	QUIPM	ENT						NOM Pow					E:												
			ACCEP.	BAL	2008		\Box		(CALE	NDA	R20	09						CALE	NDAR	2010	,			
ITEM/MANUFACTURER/	SERV.	PROC.	PRIOR TO 1 OCT.	DUE AS OF 1 OCT.					FY	′2009								FY	/2010						
PROCUREMENT YEAR	OZ.KV.	QTY.				V DEC	C JAI	N FEB	3 MA	AR API	R MA	ΥJ	JN JL	JL A	AUG SE	P OCT NOV	DEC JAI	N FEB M	AR APF	R MAY	JUN	JUL	AUG	SEP	Later
LAUNCH FACILITIES (LF) KITS							+			+															
UNKNOWN																									
FY2010	AF	75	0	75																				С	75
TOTALS		75		75																					75
			ACCEP.	BAL DUE AS	2010				(CALE	NDA	R 20	11						CALE	NDAR	2012				
ITEM/MANUFACTURER/	SERV.	PROC.	PRIOR TO 1 OCT.	OF 1 OCT.					FY	′ 2011								FY	/2012						
PROCUREMENT YEAR		QTY.			OCT NO	V DEC	C JAI	N FEB	B MA	AR APF	R MA	ΥJ	JN JL	JL A	AUG SE	P OCT NOV	DEC JAI	N FEB M	AR APF	R MAY	JUN	JUL	AUG	SEP	Later
LAUNCH FACILITIES (LF) KITS																									
UNKNOWN																									
FY2010	AF	75	0	75	6	6	6	6	6	6 6	6	• •	6 6	6	7 7	7									
TOTALS		75		75	6	6	6	6	6	6 6	6	i (6 6	6	7 7	7									
MANUFACTURER'S		PR	ODUCTIONR	ATES												Р	ROCURE	MENTL	EADT.	IME					
NAMEANDLOCATION	MIN	SUST	1-8-5	MAX	X											ADTIME			NUFA	CT.				TAL	
												PR	IOR	ТО	1 OCT	AFTER 1	ОСТ		PLT				10	СТ	
UNKNOWN/				75			INITIA	AL								11		2				13			
							REO	RDER																	
Remarks:																									
		P-1 ITE	M NO						F	PAGE		0:								Pag	e 1	of '	1		
		1									0														

PRESIDENT'S BUDGET	r PRO	DUCT	ION SCH	EDULE	(EXH	IBI	ΓР	'-21	1)								DATE	Ξ: Ν	MAY 2	2009					
APPROPCODE/BA: MPAF/MISSILE SUPPORT E	:QUIPM	ENT							OM I					:											
			ACCEP.	BAL	200	8				CA	LEN	IDAR	200	9					CALE	NDAR	2010	j			
ITEM/MANUFACTURER/	SERV.	PROC.	PRIOR TO 1 OCT.	DUE AS OF 1 OCT.			•		-	FY20	09							FY	′2010						
PROCUREMENT YEAR	OZIKV.	QTY.				OV D	EC	JAN	FEB	MAR	APR	MAY	JUI	N JUL A	UG SEP	OCT NOV [DEC JAN	I FEB M	AR APF	R MAY	JUN	JUL	AUG	SEP	Later
MISSILE ALERT FACILITIES (MAF) KITS																									
UNKNOWN																			-						
FY2010	AF	9	0	9																				С	9
TOTALS		9		9																					9
			ACCEP.	BAL	201	0				CA	LEN	IDAR	201	1					CALE	NDAR	2012				
ITEM/MANUFACTURER/	SERV.	PROC.	PRIOR TO 1 OCT.	DUE AS OF 1 OCT.					-	FY20	11						•	FY	′2012						
PROCUREMENT YEAR	OLKV.	QTY.		0 00	OCT N	OV D	FC	JAN	FFR	MAR	APR	MAY	JUI	N JUI A	UG SEP	OCT NOV	DEC JAN	I FEB M	AR APF	RMAY	JUN	JUI	AUG	SEP	Later
MISSILE ALERT FACILITIES (MAF) KITS												10,,,,	00.	1 002 7	00 02.		720 0711						7.00	02.	
UNKNOWN								\rightarrow	\vdash	$\overline{}$									+	+	\vdash				
FY2010	AF	9	0	9		1	1	1	1	1	1	1	1	1											
TOTALS		9		9		1	1	1	1	1	1	1	1	1											
MANUFACTURER'S		PR	ODUCTIONR	ATES			•							'	'	PR	OCURE	MENTL	EADT	IME			1	'	
NAMEANDLOCATION	MIN	SUST	1-8-5	MAX	X									ADI	MIN LEA	AD TIME		MA	NUFAC	CT.			TO	TAL	
													PRI	OR TO 1	ОСТ	AFTER 1 C	СТ		PLT				10	СТ	
UNKNOWN/				9			IN	IITIAL	L							11		2				13			
									DER									_							
Remarks:																									
		P-1 ITE	M NO							PA		NO	:							Pag	e 1	of '	1		
		1									2	I													

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FISCAL YEAR (FY) 2010 BUDGET ESTIMATES BUDGET ACTIVITY 02 – TACTICAL AND OTHER MISSILES MAY 2009

PAGE 2 - 0

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Exhibit P-40, Budget Item Ju-	stification								D	ate: May 20	009	
Appropriation (Treasury) Code/CC/BA	/BSA/Item Con	trol Number						P-1 Line Item	Nomenclatu	re		
Missile Procurement, Ai	r Force, E	Budget Act	ivity 02,	Other Mi	ssiles, It	em No. 2		Joint Ai	r-to-Surfa	ace Stan	doff Miss	sile
Program Element for Code B Item	ns:	N/A			Other Relat	ed Program	Elements:		0207325F			
ID Code Prior Years FY 2008 FY 2009 FY 2010 FY 2011 F								FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	942 111 175 TBD										
Cost (\$ M)		594.316										TBD
Advance Proc Cost (\$ M)												
Weapon System Cost (\$ M)		594.316	160.036	199.703	52.666						TBD	TBD
Initial Spares (\$ M)												
Total Proc Cost (\$ M)		594.316	160.036	199.703	52.666						TBD	TBD
Flyaway Unit Cost (\$ M)		0.000	1.380	1.106	N/A	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Wpn Sys Unit Cost (\$ M)		0.000	1.442	1.141	N/A	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Description

The Joint Air-to-Surface Standoff Missile (JASSM) is an ACAT 1D program. This program provides a long range, conventional air-to-surface, autonomous, precision guided, standoff cruise missile compatible with fighter and bomber aircraft able to attack a variety of fixed or relocatable targets. Aircraft integration for the baseline missile is complete on the B-52H, F-16 (Block 50), B-1, and B-2. Objective aircraft include the F-15E, F-16 (Block 40), F-35, and F/A-18E/F. The government is buying the JASSM system based on a contractor developed, government-approved System Performance Specification (SPS). This SPS is on contract. The contractor assumes total system performance responsibility (TSPR) for Lots 1-6 (FY 02-07) as defined in the SPS; for Lot 7 (FY08) and beyond, the Government has approval authority of Class I configuration changes. There are no requirements for initial spares as JASSM includes a 15 year system performance warranty.

The July 2004 Milestone III Review approved Full Rate Production (FRP) start for FY 2005 and increased the total procurement from 3,816 to 4,900. Lots 1-4 were Firm Fixed Price (FFP) options to the EMD contract. On 1 May, 2008, the Defense Acquisition Board (DAB) completed its Nunn-McCurdy assessment of the JASSM program and certified a restructured program to consist of two separable increments, the JASSM baseline increment and the JASSM-Extended Range (ER) increment-both with improved reliability and separate milestone decision points. Each version is broken out in separate P-5, P-5A, and P-21 in this document. The Cost, Weapon System Cost, and Total Procurement Cost lines include Seek Eagle (0207590F) funding. The Quantity, Flyaway Unit Cost and Weapon System Unit Cost lines reflect JASSM PE (0207325F) only. This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0207325F and PE 0207590F.

There is one FMS buy on contract. Australia signed a Letter of Agreement (LOA) for JASSM missiles on 18 July 2006. The USAF awarded the FMS contract on 28 July 2006. On 12 June 2008, the US awarded the first Australian JASSM buy under this FMS contract, to be produced concurrent with Lot 7 (FY08).

FY 2010 Program Justification

Award a production contract in FY10 with FY09 funds for a total of 175 JASSM (baseline) missiles. This contract may be awarded in FY2009 if testing schedules permit.

P-1 Shopping List Item No. 2

Budget Item Justification Exhibit P-40, page 1 of 5

Exhibit P-5, Weapon System Cost Analys	oit P-5, Weapon System Cost Analysis)	
Appropriation (Treasury) Code/CC/BA/BSA/Item Conti	rol Number							P-1 Line	Item Nomer	clature			
Missile Procurement, Air Force, B	udget /	Activity	02, Oth	er Miss	iles, Ite	m No. 2		Joint	Air-to-S	urface	Stando	ff Missil	е
Manufacturer's Name/Plant City/State Location				Subline Ite	em								
Lockheed Martin/Troy, Alabama				JASSM Ba	aseline								
Weapon System	Ident					Total	Cost in Mi	llions of I	Oollars				
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Co	st to Compl	lete
				Total			Total			Total			Total
									Cost				
Quantity *	A	111 175 Unit Cost Cost						0			TBD)	TBD
All-Up-Round	A			107.969			161.800			0.000			TBD
Engineering Change Orders	A			5.797			1.000			1.600			TBD
JPO Technical Support	A			6.888			6.100			4.200			TBD
PMA				1.687			1.503			1.566			TBD
Test Support/Reliability/Affordability Program	A			30.805			23.100			25.200			TBD
TOTAL MISSILE FLYAWAY COST				153.146			193.503			32.566			TBD
Contractor Support	A			6.890			6.200			15.400			TBD
Lot 6 Retrofit				0.000			0.000			4.700			TBD
TOTAL WEAPON SYSTEM COST		111	1.442	160.036	175	1.141	199.703	0		52.666			TBD
TOTAL PROGRAM				160.036			199.703			52.666			TBD
Comments	· · · · · · · · · · · · · · · · · · ·										· · · · · · · · · · · · · · · · · · ·		

P-1 Shopping List Item No. 2

Weapon System Cost Analysis Exhibit P-5, page 2 of 5

					UNCLA	SSIFIED						
Exhibit P-5A, Procureme										Date: May 2	2009	
Appropriation (Treasury) Code/0									em Nomenclatu			
Missile Procuremen	t, Air For	ce, Budg	et Activity	/ 02, Oth	<u>er Missile</u>	es, Item N	o. <u>2</u>	Joint A	\ir-to-Surf	ace Star	ndoff Mis	sile
Weapon System					Subline Ite							
JASSM		<u> </u>	<u> </u>		JASSM-Ba	aseline					<u> </u>	
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and	Location		Date of First Delivery	Specs Available Now?	Date Revision Available?
FY2008	111		2 308th ARSG/PK Eglin AFB, FL	Sep-07	SS	FFP	Lockheed Mart Alabama	tin, Troy,	Jun-08	Aug-09	Yes	
FY2009	FL FY2009 175 1.141 308th Jul-08 SS FPI ARSG/PK Eglin AFB, FL								Nov-09	Mar-11	No	N/A
FY2010	0		308th ARSG/PK Eglin AFB, FL	N/A	N/A	N/A	Lockheed Mart Alabama	N/A		N/A		
<u>Remarks</u>												

P-1 Shopping List Item No. 2

Procurement History and Planning Exhibit P-5A, page 3 of 5

Exhibit P-21, Productio	n Sche	dule																				Date	e: Ma	ay 20	009				
Appropriation (Treasury) Code/	CC/BA/B	SA/Item C	ontrol Nu	mber													P-	1 Line	e Item	Nom	encla	ture							
Missile Procuremer	P-1 Line Item Nomenclature P-1 Line Item Nomenclature Post Post																												
	S	PROC	PRIOR	DUE					FIS	CAL Y	EAR :		ENDAI	R YEA	R 2009)					FIS			DAR Y	EAR 2	010			L A
PROCUREMENT YEAR	R V		1 OCT	1 OCT	O C T		D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L			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	T E R
2007		163	38			14	14	10	14	14	14	14	14	6															0
2008	USAF	111	0	111						\Box				8	12	13	13	13	13	13	13	13							0
2009	USAF	175	0	175														Awar d											175
	USAF	0	0	0																									0
TOTAL		449	38	411	11	14	14	10	14	14	14	14	14	14	12	13	13	13	13	13	13	13							175
					0 C T	N O V	_	J A N	F E B	M A R	A P R	M A Y	N U	Ŋ	A U G	_	O C T	N O V	D E C	J A N	F E B	M A R		M A Y	Ŋ	JUL	A U G	E	
	P-1 Line Item Nomenclature Item Nomenclature P-1 Line Item Nomenclature Item Nomenclature																												
ITEM/MANUFACTURER'S NAME		LOCATIO	N	1	HOUR	RS	Α											_											
Lockheed Martin (JASSM Baseline)	P-1 Line Item Nomenclature P-1 Line Item																												
	P-1 Line Item Nomenclature Sissile Procurement, Air Force, Budget Activity 02, Other Missiles, Item No. 2 P-1 Line Item Nomenclature																												
REMARKS		•			-								-		-		•												
May rate of 10 per month accumes curr	ant facilities	,																											

P-1 Shopping List Item No. 2

Production Schedule Exhibit P-21, page 4 of 5

Ex	hibit P-21, Productio	n Sche	dule																				Date	e: Ma	ay 20	009				
App	ropriation (Treasury) Code	/CC/BA/B	SA/Item C	ontrol Nui	mber													P-	-1 Line	e Item	Nom	encla	ture							
Mi	ssile Procuremei	nt, Air	Force,	Budg	et Act	ivit	y 02	2, O	ther	Mi	ssil	es,	lten	n No	o. 2			J	oint	Air	-to-	-Sui	rfac	e S	tan	doff	Mi	ssil	е	
		S			BALANCE					FIS	CAL Y	EAR 2										FIS		YEAR 2						L
	PROCUREMENT YEAR	E R V	PROC QTY	PRIOR TO 1 OCT 2010	DUE AS OF 1 OCT 2010	O C T	2010 N O V	D E C	J A N	F E B	M A R	A P R	M A Y	ENDAR J U N	J U L	R 2011 A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	ALENI A P R	M A Y	EAR 2 J U N	012 J U L	A U G	S E P	A T E R
	2009	USAF	175	0	175						15	15	15	15	15	15	15	15	15	15	11	14								0
	2010	USAF	0	0	0																			_						0
TOT	AL		175	0	175	_	٠	_	.	F	15	15	15	15	15	15	15	15	15	15	11	14		_		—	-	_	_	0
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ITEN	//MANUFACTURER'S NAME		LOCATION		MIN SUST	SHIF HOU DAYS	RS	M A X								MIN TIME			MFG			TOTAL AFTER								
Lock	heed Martin (JASSM Baseline)		Troy, Alaba	ma	15	1 - 8 -	- 5	40						PRI 1 O		AF1 1 0			TIME			1 OCT	•							
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REM	1ARKS		•		•	•														10			- 10							
Max	rate of 40 per month assumes curr	rent facilities	3		•	,													,											

iviax rate or 40 per monar assumes current racinties

P-1 Shopping List Item No. 2

Production Schedule Exhibit P-21, page 5 of 5

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Exhibit P-40, Budget Item Jus	tification								D	ate: May 2	009	
Appropriation (Treasury) Code/CC/BA/B	SA/Item Cont	rol Number						P-1 Line Iten	n Nomenclatu	re		
Missile Procurement, Air	Force, E	Budget Act	ivity 02,	Other Mi	ssiles, It	em No. 3	3	AIM-9X	Sidewind	der		
Program Element for Code B Items	s:	N/A		Other Relat	ed Program	Elements:		0207161N				
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	1,374	149	163	219						TBD	TBD
Cost (\$ M)		308.195	52.334	76.995	78.753						TBD	TBD
Advance Proc Cost (\$ M)		0.000									TBD	TBD
Weapon System Cost (\$ M)		308.195	52.334	76.995	78.753						TBD	TBD
Initial Spares (\$ M)		6.539	1.528	1.231	1.576						TBD	TBD
Total Proc Cost (\$ M)		314.734	53.862	78.226	80.329						TBD	TBD
Flyaway Unit Cost (\$ M)			0.292	0.399	0.342						TBD	TBD
Wpn Sys Unit Cost (\$ M)			0.351	0.474	0.357						TBD	TBD

Description

The AIM-9X Sidewinder short-range air-to-air missile is a long-term evolution of the AIM-9 series of fielded missiles. The AIM-9X missile program provides a launch and leave, air combat munition that uses passive infrared (IR) energy for acquisition and tracking of enemy aircraft and complements the Advanced Medium Range Air-to-Air Missile (AMRAAM). Air superiority in the short-range air-to-air missile arena is essential and includes first shot, first kill opportunity against an enemy employing IR countermeasures. The AIM-9X employs several components common with the AIM-9M (fuse, rocket motor, and warhead). Anti-Tamper features have been incorporated to protect improvements inherent in this design. AIM-9X is an Acquisition Category IC (ACAT-IC) joint-service program (Navy is executive Service). The Navy is procuring a total of 4,937 missiles of which 1,085 are Captive Air Training Missiles (CATMs). The Air Force is procuring a total of 5,097 missiles of which 1,100 are CATMs.

Production units have been delivered to the government ahead of the projected schedule. This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0207161N and PE 0207161F.

NOTE: The unit cost calculations assume Navy procurement quantities remain constant, as depicted in the attached P-21 Production Schedule. Production quantities were adjusted due to a new production contract (no LTPA) and addition of a new Block II design.

FY 2010 Program Justification

Lot 10 is the sixth FRP buy of AIM-9X and will occur in FY10. This continues the procurement of AUR's/CATMs for the Air Force and Navy. The FY10 procurement of 219 missiles includes associated missile containers, ST/STE, training equipment and technical data. The program also includes funding for field activity support, government SE/PM and production technical support.

P-1 Shopping List Item No. 3

Budget Item Justification Exhibit P-40, page 1 of 10

Appropriation (Treasury) Code/CC/BA/BSA/Item Cor Missile Procurement, Air Force, I			02, Oth	ner Miss	iles, Ite	m No. 3	ı		Item Nomeno X Sidew				
Manufacturer's Name/Plant City/State Locatio				Subline Ite	•								
W. G. day	T *1			<u> </u>		T-4-1	C. C. M.	·13 CT	> 11				
Weapon System	Ident		EV 2000				Cost in Mi				Co	· · · · · · · · ·	1
Cost Elements	Code		FY 2008	Total		FY 2009	Total		FY 2010	Total	Cos	st to Compl	Total
]]	Oty	Unit Cost		Oty	Unit Cost	I I	Qty	Unit Cost	Cost	Qty	Unit Cost	
Missile Procurement Quantity	A	149			163			219		2021	TBD		0031
Flyaway Cost	A	, 			, —	,							
All Up Round (AUR)	A	89	· [22.509	113		39.932	166		55.561	TBD		TBD
Captive Air Training Missile (CATM)	A	60	/'	12.664	50		11.254	53		12.644	TBD		TBD
Missile Containers	A	42	,	0.455	46		0.486	61		0.645	TBD		TBD
Engineering Change Orders	A	·		1.069	·		1.550			2.102			TBD
Special Test/Special Tooling Equipment	A	(<u> </u>		0.470	(<u> </u>		3.229			0.234			TBD
Non-Recurring	A	(ر <u> </u> ا		2.250						
Government SE/PM	A	·'		4.261	(<u> </u>		6.037			4.182			TBD
Total Missile Flyaway Cost	A	149	0.278	41.428	163	0.397	64.738	219	0.350	76.589	TBD		TBD
Weapons Support Cost	A	'											
Support Equipment	A	<u>'</u>	<u> </u>										
Training	A	<u></u> '	<u> </u>	0.015			0.039	لــــــــــــــــــــــــــــــــــــــ		0.039			
Training Equipment	A	<u> </u>	<u> </u>										
DATM/NATM	A	<u> </u>	<u> </u>	3.500	<u></u>			لـــــــــا	Ī.				
CEST	A	<u> </u>	<u>Ĺ</u> ′		<u>ر </u>			لــــــــــا					
PEST	A	'	<u> </u>		اــــــا			لــــــــا					
Airborne Test Equipment (ATE)	A	<u>'</u>	 '	0.880			4.680						<u> </u>
Data	A	<u>'</u>	 '	0.125			0.125			0.157			TBD
Production Technical Support	A	<u>'</u>	 '	6.386		<u> </u>	7.413		\Box	3.189			TBD
Total Weapons System Cost	A	149	0.351		163	0.472			0.360	78.753	TBD		TBD
Initial Spares		<u>'</u>	 '	1.528	لــــــا		1.231			1.576			TBD
Total Procurement Cost		<u>'</u>	 '	53.862	لا		78.226			80.329			TBD
Other Costs		<u>'</u>	 '									<u> </u>	
SEEK EAGLE (PE:0207590F)	A	<u>'</u>	 '	1	لا								TBE
TOTAL PROGRAM	<u> </u>	<u> </u>	<u> </u>	52.334	<u>, </u>		76.995	ل		78.753			TBI

^{2.} SEEK EAGLE funding was sourced from PE0207590F, and procured 24 missiles and associated Airborne Test Equipment.

Exhibit P-5, Weapon System Cost Analysis

P-1 Shopping List Item No. 3

Weapon System Cost Analysis
Exhibit P-5, page 2 of 10

Date: May 2009

Exhibit P-5A, Procurement H	story	and Planni	ing							Date: May 2	2009	
Appropriation (Treasury) Code/CC/BA/	BSA/Ite	m Control Num	nber					P-1 Line Ite	em Nomenclat	ure		
Missile Procurement, Air	r For	ce, Budge	et Activity	/ 02, Oth	er Missilo	es, Item N	lo. 3	AIM-9X	Sidewin	der		
Weapon System					Subline Ite	m						
AIM-9												
			Location of		Contract	Contract				Date of First	Specs Available	Date Revision
WBS Cost Elements	Qty	Unit Cost	PCO	Date	Method	Туре	Contractor and	Location	Award Date	Delivery	Now?	Available?
FY02 AIM-9X LRIP 2, Lo 2 (Note 3)	138	0.202	NAVAIR		SS	FP	Raytheon Syste Company, Tuc		Nov-01	Aug-03	Yes	
FY03 AIM-9X LRIP 3, Lo 3 (Note 3)	286	0.177	NAVAIR	May-96	SS	FP	Raytheon Syste Company, Tuc		Nov-02	May-04	Yes	
FY04 AIM-9X LRIP 4, Lo 4 (Note 3)	256	0.193	NAVAIR	May-03	SS	FP	Raytheon Syste Company, Tuc		Jan-04	May-05	Yes	
FY05 AIM-9X FRP 1, Lot 5 (Note 3)	248	0.195	NAVAIR	May-04	SS	FP	Raytheon Syste Company, Tuc		Nov-04	May-06	Yes	
FY06 AIM-9X FRP 2, Lot 6 (Note 3)	196	0.201	NAVAIR	May-05	SS	FP	Raytheon Syste Company, Tuc		Dec-05	May-07	Yes	
FY07 AIM-9X FRP 3, Lot 7 (Note 3)	183	0.208	NAVAIR	May-06	SS	FP	Raytheon Syste Company, Tuc		Nov-06	May-08	Yes	
FY08 AIM-9X FRP 4, Lot 8 (Notes 1, 3)	149	0.292	NAVAIR	Dec-06	SS	FP	Raytheon Syste Company, Tuc		Jan-08	May-09	Yes	
FY09, AIM-9X FRP 5, Lo 9 (Notes 2, 3)	t 163	0.399	NAVAIR	Feb-08	SS	FP	Raytheon Syste Company, Tuc		Mar-09	Sep-10	Yes	
FY10, AIM-9X FRP 6, Lo 10 (Notes 2, 3)	t 219	0.342	NAVAIR	Jan-09	SS	FP	Raytheon Syste Company, Tuc		Dec-09	Sep-11	Yes	

Remarks

- 1. Lot 8 unit cost calculation assumes US Navy procurement of 170 missiles in FY08.
- 2. Lots 9-13's unit cost calculations assume US Navy and FMS procurement quantities remain constant.
- 3. Unit Cost consists of AUR, CATM, and Container.

P-1 Shopping List Item No. 3

Procurement History and Planning Exhibit P-5A, page 3 of 10

Ext	nibit P-21, Productio	n Sche	dule																				Date	e: Ma	ay 20)09				
App	ropriation (Treasury) Code	/CC/BA/B	SA/Item C	ontrol Nui	mber													P-	1 Line	e Item	Nom	encla	ture							
Mi	ssile Procuremer	nt, Air	Force	Budg	et Act	ivit	y 02	2, O	the	r Mi	ssil	es,	lter	n N	o. 3	}		Α	IM-	9X (Side	iiwe	nde	r						
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	PROCUREMENT YEAR	E R V	PROC QTY	PRIOR TO 1 OCT 2001	DUE AS OF 1 OCT 2001	O C T	2001 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 2002 A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	ALENI A P R	M A Y	EAR 2 J U N	J U L	A U G	S E P	A T E R
	2002	USAF	138	0	138		Awar																					4	8	126
TOT	AL		138	0	138		0																					4	8	126
						0 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	JUL	A U G	S E P	100	N 0 N	D E C	J A N	F E B	M A R	A P R	M A Y	J	J	A U G	S E P	
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	neon (LRIP III and out)		Tucson, AZ	<u>.</u>	300	1 - 8	- 5	800							IOR OCT		TER OCT		TIME			1 OCT								
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REM	IARKS																													
LRIP	2 Contract Awarded Nov 01 (MS	SR=100, Shi	ft Hours Day	s=332, Max	=800, ALT	After (Oct 1=2	wks, N	/IFG Ti	me=18	Month	ns)																		

P-1 Shopping List Item No. 3

Production Schedule Exhibit P-21, page 4 of 10

Ex	hibit P-21, Productio	n Sche	dule															Т					Date	e: Ma	ay 20	09				
App	ropriation (Treasury) Code/	CC/BA/B	SA/Item Co	ontrol Nur	mber													P-	1 Line	e Item	Nom	encla	ture							
Mi	ssile Procuremer	nt, Air	Force,	Budg	et Act	ivit	y 02	, Ot	ther	Mi	ssil	es,	lter	n N	o. 3			Α	IM-	9X S	Side	wir	nde	r						
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		E	PROC	PRIOR	DUE		2003						CALI	ENDAI	R YEA	R 2004							C.	ALENI	OAR Y	EAR 20	005			Α
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	2002	USAF	138	2003	2003	T 16	V 16	C 16	N	B 18	R 24	R 24	Y	N	L	G	P	T	V	С	N	В	R	R	Y	N	L	G	P	R
	2002	USAF	286	12	126 286	16	16	16	12	18	24	24	12	12	16	22	24	24	24	24	32	32	32	32		-		\vdash	_	0
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	2004	USAF	256	0	256				Awai																24	20	24	24	14	150
	2005	USAF	248	0	248														Awar d											248
	2006	USAF	196	0	196																							\Box		196
	2007	USAF	183	0	183																							\Box		183
	2008	USAF	149	0	149																									149
	2009	USAF	163	0	163																									163
	2002	USN	105	24	81	8	8	7	8	16	17	17																		0
	2003	USN	284	0	284								20	20	20	20	20	20	24	24	24	24	32	36						0
	2004	USN	103	0	103				Awar d																8	11	16	16	14	38
	2005	USN	135	0	135														Awar											135
	2006	USN	159	0	159														u							\neg		\Box		159
	2007	USN	174	0	174																					\neg		\Box		174
	2008	USN	170	0	170																							\Box		170
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P-1 Shopping List Item No. 3

Production Schedule Exhibit P-21, page 5 of 10

Ex	hibit P-21, Productio	n Sche	dule															\mathbf{T}					Date	e: Ma	ay 20	09				
App	propriation (Treasury) Code/	/CC/BA/B	SA/Item C	ontrol Nu	mber													P-	1 Line	e Item	n Nom	nencla	ature							
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		E	PROC	PRIOR	DUE		2005		$ldsymbol{\Box}$					ENDAF	YEA	R 2006	į			'	ـــــــ		<u>С</u>	ALENI	OAR Y	EAR 2	007			Α
	PROCUREMENT YEAR	R	OTY	TO	AS OF	О	N	D	J	F	M	A	M	J	J	Α	S	О	N	D	l l	F	M	Α	M	J	J	A	S	Т
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—	2005	USAF	248	<u> </u>	248	+-	+	$oldsymbol{\sqcup}$	igspace	$\vdash \vdash$	igwdown		30	30	30	32	32	32	24	25	13	⊢	—	—	├ ─-'	$\vdash \vdash \vdash$	igwdown			<u> </u>
	2006	USAF	196	0	196	<u> '</u>	Awar d					<u> </u>								<u>'</u>	<u> </u>				12	56	25	15	6	82
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	2009	USAF	163	0	163		$\overline{}$				\vdash			\Box		\vdash	\vdash			$\overline{}$	\Box	\vdash	\vdash	\vdash			\Box	\Box	,—	163
	2002	USN	105	105		\square	\Box							\Box	\Box					$\overline{}$	\Box		\vdash	\vdash			\Box	\Box	\neg	0
	2003	USN	284	284	. 0	$\overline{}$	\Box	\Box				-		\Box	\neg					$\overline{}$	$\overline{}$			\vdash			\Box	\Box	,—	0
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	2005	USN	135	0	135		\Box						15	15	15	18	18	18	22	14								\Box	-	0
	2006	USN	159	0	159	<u> </u>	Awar													<u> </u>					43		1	22	22	71
\sqcap	2007	USN	174	0	174											\square				Awar	\Box							\Box	$ agray{}$	174
_	2008	USN	170	0	170	.——	\vdash	$\vdash \vdash$	$\vdash \vdash$	$\vdash \vdash$	$\vdash \vdash$	\vdash	$\vdash \vdash$	$\vdash \vdash$	\Box	$\vdash \vdash$	\vdash	$\vdash \vdash$	\vdash		$\overline{}$	\vdash	\vdash	+-	┢	\vdash	\vdash	\longrightarrow		170
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	2005	FMS	184	0	184		$\overline{}$	\vdash	$\vdash \vdash$	$\vdash \vdash$	$\vdash \vdash$	\vdash		$\overline{}$	\Box	$\vdash \vdash$	\vdash	$\vdash \vdash$	3	16	55	10	41	59	\vdash		\Box	$\overline{}$,—	0
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REM	MARKS P 2 Contract Awarded Nov 01 (MS																													
LRIF	P 2 Contract Awarded Nov 01 (MS)	SR=100, Shi'	ft Hours Day	s=332, Max	=1200, ALT	. After	Oct 1=	2 wks,	MFG T	ime=1	8 Mont	ths)																		

P-1 Shopping List Item No. 3

Production Schedule Exhibit P-21, page 6 of 10

Exhibit P-21, Production Schedule Date: May 2009 Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number P-1 Line Item Nomenclature Missile Procurement, Air Force, Budget Activity 02, Other Missiles, Item No. 3 AIM-9X Sidewinder FISCAL YEAR 2009 ACCEP BALANCI CALENDAR YEAR 2009 PRIOR DUE 2007 CALENDAR YEAR 2008 PROC E PROCUREMENT YEAR TO AS OF О N D M M D M S T R QTY 1 OCT 1 OCT C O E Е P U U U Е C О Е Е P U U U Е Α Α Α Α Α Ε V V G 2007 2007 USAF 2003 286 256 256 2004 USAF 2005 USAF 248 248 2006 USAF 196 114 82 32 2.1 2007 USAF 183 183 40 Awar 149 2008 USAF 149 20 Awar 2009 USAF 163 163 USAF 219 219 2010 284 2003 USN 2004 USN 103 103 2005 USN 135 135 159 71 33 2006 USN 19 19 USN 174 174 2007 54 Awar USN 170 170 40 2008 Awar 2009 USN 144 144 2010 USN 161 161 2006 FMS 292 173 FMS 350 350 2007 Awar 2008 FMS 169 169 35 102 Awar FMS 384 384 2009 2.592 TOTAL 4 225 43 64 98 40 D E C S E 0 C T D E C Ν F М М Ν М М Α A U S 0 Е Α Ε Α Р A 0 V A N Α Ρ Α U Ε Ν PRODUCTION RATES PROCUREMENT LEAD TIME MIN SHIFT **ADMIN** SUST HOURS LEAD TIME Α **TOTAL** MFG ITEM/MANUFACTURER'S NAME LOCATION DAYS **AFTER** TIME Raytheon (LRIP III and out) 1 - 8 - 5 800 PRIOR AFTER 1 OCT 1 OCT 1 OCT LRIP 2 Contract Awarded Nov 01 (MSR=100, Shift Hours Days=332, Max=1200, ALT After Oct 1=2 wks, MFG Time=18 Months) FY09 provides funding to procure the first lot of AIM-9X Block II missiles The gap from May 10 thru Aug 10 will procure/deliver Block I missiles to FMS customers

P-1 Shopping List Item No. 3

Production Schedule Exhibit P-21, page 7 of 10

Ex	hibit P-21, Productio	n Sche	dule																				Date	э: Ма	ay 20	09				
Apr	propriation (Treasury) Code/	/CC/BA/B	SA/Item C	ontrol Nu	mber													P	-1 Line	e Item	Nom	iencla	ture							
	issile Procuremer					.ivit	y 02	<u>2, O</u>	ther	. <u>Мі</u>	s <u>sil</u>	es,	<u>lter</u>	n N	o. 3			Α	\IM-9	9X :	Sid(<u>əwi</u> r	1de	r						
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l		E E	PROC	PRIOR	DUE		2009						CALI	ENDAI	R YEA	R 2010					\sqsubseteq		C	ALENI	DAR YI	EAR 2	011			Α
i	PROCUREMENT YEAR	R	OTY	TO	AS OF	0	N	D	J	F	M	A	M	J	J	A	S	О	N	D	l l	F	M	A	M	J	J	A	S	T
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-	2006	USAF	196			.—	\vdash	$\vdash \vdash$	$\vdash \vdash$	$\vdash \vdash$	\vdash	$\vdash \vdash$	$\vdash \vdash$	$\vdash \vdash$	$\vdash \vdash$	$\vdash \vdash$	\vdash	$\vdash \vdash$		$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\vdash \vdash$	\vdash	$\neg \neg$	$\vdash \vdash$	$\overline{}$	$\overline{}$	0
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	2008	USAF	149			21		40	20																					0
	2009	USAF	163	0	163												12	12	12	12	12	12	20	21	10	12	12	16		0
	2010	USAF	219	0	219			Awar d																					16	203
	2005	USN	135	135	0	<u></u> '														\Box	\Box								\Box	0
	2006	USN	159	10/	·															\square'	\Box	\square	\square'						\square'	0
ᆫ	2007	USN	174	174		<u>—</u>														<u> </u>	<u> </u>	<u> </u>	<u> </u>						<u> </u>	0
ᆫ	2008	USN	170	68		_	42	igsqcup	20	20	\Box	<u> </u>		\square		\Box			\Box	'	└─ ─'	└	<u>Г</u>	$ldsymbol{ldsymbol{ldsymbol{eta}}}$	ш			\Box	<u> </u>	0
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<u> </u>	2010	USN	161	0	161	\perp		Awar d												<u> </u>			<u> </u>						12	149
Ш	2008	FMS	169				Щ.	<u></u> '	igspace	22	40	40	_	Ш'	igsqcup	igsquare	<u> </u>	<u> </u>	igspace	—'	—'	 -'	——'	<u> </u>	igsquare	$oldsymbol{oldsymbol{\sqcup}}$	igsquare	igspace	'	0
L_	2009	FMS	384		384		Ь—	<u> </u>	igspace	igsquare	igsqcup	<u> </u>	45		45			22				-			-		igsqcup	igcup	 -'	0
TOT	<u> </u>		2,654	1,298	1,356		42	40	40	42	40	40	45	45	45	45	73	46	45	72	45	43	73	45	77	36	36	' '''	28	352
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		,	1	'		HOUF		Α	ĺ				I.		LEAD	TIME			MFG	,	1 -	TOTAL	∠ '							
	M/MANUFACTURER'S NAME	'	LOCATION	<u>.\</u>		DAYS	3	Х	j				I.	<u> </u>					TIME			AFTER								
Rayt	rtheon (LRIP III and out)		Tucson, AZ		300	1 - 8 -	5	800					ļ		IOR OCT	AF1 1 O	TER OCT		IIIVIL		<u> </u>	1 OCT								
									INITIA								3			21			24]						
<u> </u>		'		'	'	Щ.			REOF	<u>₹DER</u>				<u> </u>		Щ.		Ь		'	Щ.			Щ						
REN	MARKS																													
LRII	IP 2 Contract Awarded Nov 01 (MS	SR=100, Shif	it Hours Day	s=332, Max	.=1200, ALT	. After (Oct 1=	2 wks,	MFG T	ime=15	8 Mont	ths)																		

FY09 provides funding to procure the first lot of AIM-9X Block II missiles The gap from May 10 thru Aug 10 will procure/deliver Block I missiles to FMS customers

P-1 Shopping List Item No. 3

Production Schedule Exhibit P-21, page 8 of 10

Exhibit P-21, Production Schedule			Date: May 2009
Appropriation (Treasury) Code/CC/BA/BSA/Item Control N	ımber		P-1 Line Item Nomenclature
Missile Procurement, Air Force, Bud	get Activity 02, C	Other Missiles, Item No. 3	AIM-9X Sidewinder
S ACCEP PRIOR PRIOR	BALANCE DUE 2011	FISCAL YEAR 2012 CALENDAR YEAR 201	FISCAL YEAR 2013 L 2 CALENDAR YEAR 2013 A
PROCUREMENT YEAR R PROCUREMENT Y	AS OF O N D 1 OCT C O E 2011 T V C	J F M A M J J A A E A P A U U U N B R R Y N L G	S O N D J F M A M J J A S T E C O E A E A P A U U U E E P T V C N B R R Y N L G P R
	5 203 16 16 2	1 20 20 20 20 20 18 16 10	'
2010 USN 161 1 TOTAL 380 2	2 149 12 12 12 3 352 28 28 3	2 15 12 12 12 12 16 16 13 3 35 32 32 32 32 34 32 34	7
	O N D C O E T V C	J F M A M J J A A E A P A U U U N B R R Y N L G	S O N D J F M A M J J A S E C O E A E A P A U U U E P T V C N B R R Y N L G P
	PRODUCTION RATES	PROCUREMEN	T LEAD TIME
ITEM/MANUFACTURER'S NAME LOCATION	MIN SHIFT M SUST HOURS A DAYS X	ADMIN LEAD TIM	MFG
Raytheon (LRIP III and out) Tucson, AZ	300 1 - 8 - 5 80		TER TIME 1 OCT
		INITIAL REORDER	3 21 24
REMARKS	•	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

LRIP 2 Contract Awarded Nov 01 (MSR=100, Shift Hours Davs=332, Max=1200, ALT After Oct 1=2 wks, MFG Time=18 Months)

P-1 Shopping List Item No. 3

Production Schedule Exhibit P-21, page 9 of 10

Exh	ibit P-21, Productio	n Sche	dule																				Date	e: Ma	ay 20	009				
Appr	opriation (Treasury) Code/	CC/BA/B	SA/Item C	Control Nu	mber													P-	1 Line	e Item	Nom	encla	ture							
Mis	ssile Procuremer	nt, Air	Force	, Budg	jet Act	ivit	y 02	2, O 1	ther	Mi	ssil	es,	lten	n N	o. 3			Α	IM-	9X S	Side	wir	nde	r						
		S		ACCEP PRIOR	BALANCE DUE		2013			FIS	CAL Y	EAR :		ENDAI	2 YFA	R 2014						FIS		YEAR 2 ALENI		FAR 2	015	_		L A
	PROCUREMENT YEAR	E R V	PROC QTY	TO 1 OCT 2013	AS OF 1 OCT 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	T E R
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					PRODUC [*]									PRO		MENT	LEAD	TIME												
ITEM	/MANUFACTURER'S NAME		LOCATIO	N	MIN SUST	SHIF HOUI DAYS	RS	M A X								MIN TIME			MFG TIME			TOTAL AFTER								
Rayth	eon (LRIP III and out)		Tucson, Az	Z	300	1 - 8 -	5	800							IOR ICT	AF 1 C	ΓER OCT		IIIVIE		•	1 OCT	•							
									INITIA								3			21			24]						
DEM.	ARKS		<u> </u>		ļ				REOF	RDER														<u> </u>						
	2 Contract Awarded Nov 01 (MS	R=100, Shi	ft Hours Dav	ys=332, Max	=1200, ALT	After	Oct 1=2	2 wks, 1	MFG T	ime=1	8 Mont	hs)																		

P-1 Shopping List Item No. 3

Production Schedule Exhibit P-21, page 10 of 10

Exhibit P-40, Budget Item Jus	tification								D	ate: May 2	009	
Appropriation (Treasury) Code/CC/BA/6	3SA/Item Con	trol Number						P-1 Line Iter	n Nomenclatu	ıre		
Missile Procurement, Air	Force, E	Budget Act	ivity 02,	Other Mi	ssiles, It	em No. 4	ļ	Advanc	ed Mediu	um Rang	e Air-to-A	\ir
								Missile	(AMRAA	.M)		
Program Element for Code B Items	s:	0207163F			Other Relat	ed Program	Elements:		N/A			
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	7,837	133	133	196						TBD	TBD
Cost (\$ M)		6701.847	190.797	203.841	291.827						TBD	TBD
Advance Proc Cost (\$ M)		0.000									TBD	TBD
Weapon System Cost (\$ M)		6701.847	190.797	203.841	291.827						TBD	TBD
Initial Spares (\$ M)		62.132	3.645	0.077	0.077						TBD	TBD
Total Proc Cost (\$ M)		6763.979	194.442	203.918	291.904						TBD	TBD
Flyaway Unit Cost (\$ M)		0.823	1.265	1.325	1.327						TBD	TBD
Wpn Sys Unit Cost (\$ M)		0.855	1.435	1.533	1.528						TBD	TBD

Description

The AMRAAM is the next generation all-weather, all environment radar guided missile developed jointly by the Air Force and Navy. The AF is the lead service. AMRAAM is smaller, faster, lighter, and has improved capabilities against very-low and high-altitude high-speed targets in an electronic attack (EA) environment as compared to previously fielded radar guided missiles. The next version, AIM-120D, is currently projected to complete System Development and Demonstration (SDD) in Jun 09. Procurement of limited quantities to support Air Force and Navy operational test and Initial Operational Capability (IOC) requirements began in FY06. The AIM-120D will deliver improved performance from GPS-aided navigation, a two way data link capability that will enhance aircrew survivability, improved network compatibility, and incorporate new guidance software to improve the AMRAAM's kinematic performance.

The Defense Acquisition Board approved AMRAAM Full Rate Production (Milestone IIIB) in April 1992. The FY09 procurement is planned to be a stand alone contract for approximately 133 AIM-120D missiles for the AF and 57 for the Navy. The contract will include funding to build additional and modify existing tooling and test equipment to increase production rates to support the production of the AIM-120D. It will also fund Diminishing Manufacturing Sources (DMS) (obsolete parts), and Telemetry Instrumentation. FMS participants will continue to procure AIM-120C-7 missiles at the projected rate of approximately 250 units (FY09) and projected minimum of 250 units per year thereafter.

This program has associated Research Development Test and Evaluation (RDT&E) funding in 0207163F.

FY 2010 Program Justification

Continue the procurement of AMRAAM for the AF and Navy in Lot 24. Procure 191 AIM-120D missiles for the AF and 79 for the Navy. Build additional and modify existing tooling and test equipment to increase production rates to support the production of the AIM-120D. Develop second source suppliers for critical items as necessary and fund DMS implementation to reduce program risk. FMS participants will continue to procure AIM-120C-7 missiles at the projected rate of 250 per year thereafter. The training equipment line includes Telemetry Instrumentation Units for the Weapon Systems Evaluation Program (WSEP).

P-1 Shopping List Item No. 4

Budget Item Justification Exhibit P-40, page 1 of 9

Exhibit P-5, Weapon System Cost An Appropriation (Treasury) Code/CC/BA/BSA/Item of Missile Procurement, Air Force	Control Number	Activity	02, Oth		les, Ite			Adva	Item Nomer	oclature edium R	May 2009 ange A	Air-to-Air							
Manufacturer's Name/Plant City/State Loca	tion			Subline Ite	m								•						
Raytheon, Tucson AZ																			
Weapon System	Ident			•		Total	Cost in Mil	fillions of Dollars											
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Cost to Comp								
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost						
Quantity	A	133			133			196			TBD								
Flyaway Cost	A																		
Missile Hardware	A																		
1. Missile Price	A			131.431			131.124			173.808			TBD						
2. Warranty	A			8.224			8.835			12.918			TBD						
3. Tooling and Test Equipment				8.835			3.452			9.637			TBD						
4. DMS (Obsolete Parts)	A			7.816			17.729			35.245			TBD						
5. Engineering Change Orders	A			2.207			2.892			4.378			TBD						
Subtotal Missile Hardware				158.513			164.032			235.986			TBD						
Production Support	A																		
1. Production Test/Support	A			7.367			10.697			15.739			TBD						
2. Program Management Adm	A			2.408			1.475			1.641			TBD						
Subtotal Production Support				9.775			12.172			17.380			TBD						
Total Missile Flyaway Cost		133	1.265	168.288	133	1.325	176.204	196	1.293	253.366	TBD		TBD						
Support Cost																			
1. Peculiar Support Equipment	A			0.520			0.051			0.078			TBD						
2. Training Equipment	A			20.598			26.006			37.336			TBD						
3. WR Production Support	A			1.391			1.580			1.047			TBD						
Subtotal Support Cost				22.509			27.637			38.461			TBD						
Total Weapon System Cost	A	133	1.435	190.797	133	1.533	203.841	196	1.489	291.827	TBD		TBD						
Other Weapon Systems Costs	A																		
Initial Spares (Non-add)				3.645			0.077			0.077			TBD						
AMRAAM Reprogramming Equip (CMBRE) BP-22 (Non-add)	A			5.716			5.722			5.264			TBD						
Replenishment Spares (Non-add)	A			0.204			0.211			0.803			TBD						
TOTAL PROGRAM				190.797			203.841			291.827			TBD						
Comments	•			•			· · · · · · · · · · · · · · · · · · ·					· '							
			P-1 Sho	pping List I	tem No.	4						m Cost Ai P-5, page 2							

Exhibit P-5, Weapon System Cost An	alysis		Date: May 2009															
Appropriation (Treasury) Code/CC/BA/BSA/Item (Control Number	P-1 Line Item Nomenclature																
Missile Procurement, Air Force	Advanced Medium Range Air-to-Air Missile (AMRAAM)																	
Manufacturer's Name/Plant City/State Loca																		
Raytheon, Tucson AZ																		
Weapon System	Ident					Total	Cost in Mi	Iillions of Dollars										
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Cost to Complete							
			1	Total			Total			Total			Total					
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost					
1) Unit Cost coloulations for AE Marry and	athan magnina	manta haar	d on 250	ATM 120C	7 EMC	nita												

- 1) Unit Cost calculations for AF, Navy, and other requirements based on 250 AIM-120C-7 FMS units.
- 2) The All Up Round (AUR) and Captive Air Training Missile (CATM) mix varies by year, and service, which impacts the missile unit price.
- 3) FY10 unit cost increase from cost shown in PB09 documentation due to: a) increase in material and labor costs, and b) increased DMS costs.
- 4) DMS (obsolete parts) and Tooling and Test Equipment moved from Production Support to the Missile Hardware line which is consistent with Navy Production Documentation.
- 5) This P-Doc reflects the Air Force portion of DMS; Navy (AMRAAM), Army (AMRAAM), and Navy (SM-6) will reflect their DMS cost in their documentation.
- 6) Increased Tooling and Test Equipment in is required to support the increased missile production quantity.
- 7) Increase in training equipment due to buying additional Telemetry (TM) units to support WSEP and also upgrading TM components to maintain compatibility with F-22 and test range infrastructure.

P-1 Shopping List Item No. 4

Weapon System Cost Analysis Exhibit P-5, page 3 of 9

Exhibit P-5A, Procurement H	istory	Date: May 2009																	
Appropriation (Treasury) Code/CC/BA/				. 00 . 04		I NI	_ 4		em Nomenclatu		A 4	A *							
Missile Procurement, Ai	r Fore	ce, Budg	et Activity	/ 02, Othe	er Missile	es, Item N		Advanced Medium Range Air-to-Air Missile (AMRAAM)											
Weapon System					Subline Item														
AMRAAM																			
	Contract	Contract				Date of First	Specs Available	Date Revision											
WBS Cost Elements	Qty	Unit Cost	PCO	Date	Method	Туре	Contractor and	Location	Award Date	Delivery	Now?	Available?							
FY08 Lot 22 Production	133	1.435	AFMC/328 ARSG	Sep-07	SS	FP	Raytheon, Tuc	son, AZ	May-08	Jan-10	Yes								
FY09 Lot 23 Production	133	1.533	AFMC/328 ARSG	Sep-08	SS	FP	Raytheon, Tuc	son, AZ	Apr-09	Feb-11	Yes								
FY10 Lot 24 Production	196	1.528	AFMC/328 ARSG	Sep-09	SS	FP	Raytheon, Tuc	son, AZ	Feb-10	Feb-12	Yes								

Remarks

1) Unit Cost calculations for AF, Navy, and other requirements based on 250 AIM-120C-7 FMS units.

Exhibit D.5A. Procurement History and Planning

- 2) The All Up Round (AUR) and Captive Air Training Missile (CATM) mix varies by year, and Service which impacts the missile unit price.
- 3) Restructured Lot 20-22 deliveries to account for SDD delays. Lot 23 is to be delivered in 8 months which restores the program back to its historical pace of 24 months between contract award and first delivery for Lot 24 and beyond.

P-1 Shopping List Item No. 4

Procurement History and Planning Exhibit P-5A, page 4 of 9

Data: May 2000

Ex	hibit P-21, Production	on Sche	dule																				Date	e: Ma	ay 20	009				
App	propriation (Treasury) Code	e/CC/BA/B	SA/Item C	ontrol Nu	mber													P-1 Line Item Nomenclature												
	issile Procureme					ivit	y 02	2, O	the	r Mi	ssil	es,	Iter	n N	o. 4			Advanced Medium Range Air-to-Air												
																		N	liss	ile ((AM	RA	ΑM)						
		S		ACCEP	BALANCE DUE	CF FISCAL YEAR 2005													FIS	SCAL	YEAR	2006					L			
		E	PROC	PRIOR			2004						CAL	ENDA	R YEA	R 200	5						C	CALENDAR YEAR 2006						Α
	PROCUREMENT YEAR	R	OTY	TO	AS OF	0	N	D	J	F	M	Α	M	J	J	Α	S	О	N	D	J	F	M	Α	M	J	J	Α	S	T
ı		V	Q11	1 OCT	1 OCT	С	О	Е	Α	Е	Α	P	Α	U	U	U	Е	C	0	Е	Α	Е	Α	P	Α	U	U	U	E	Е
		V		2004	2004	T	V	С	N	В	R	R	Y	N	L	G	P	T	V	С	N	В	R	R	Y	N	L	G	P	R
	2005	USAF	159	(159																							<u>'</u>		159
	2006	USAF	84	(84	_																					<u> </u>	<u> </u>		84
	2005	USN	37	(37																						<u> </u>	<u> </u>		37
	2006	USN	48	(48																						<u> </u>	└ ─'		48
	2005	FMS	233	(233	_																	7	1			<u> </u>	└ ─'	2	223
	2006	FMS	241	(241																					8	<u> </u>	└ ─'		233
	2005	USA	5	(5											<u> </u>								┞			<u> </u>	└ ─'		5
	2006	USA	34	(34														ļ					┞			<u> </u>	—'		34
<u> </u>	2005	USMC	1	(1											┡								_			<u> </u>	——'		1
Ь—	2005	FA-18	12	(12		_									_		_						—			—	—		12
_	2006	F-35	0	(0		_									_		_						—			—	—		0
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						0	N	D	J	F	М	I A	М	J	J J	A	S	0	N	D	J	l F	l M	ΙA	M	J	J '	A	S	
						<u>C</u>	0	E	A	E	A	P	A	U	U	U	E	C	0	E	A	E	I A	P	A	U	U	0	E	
_					Innonuo:	FIGNI	I V	<u> </u>	N	В	R	R	Y	N DDC		G	I P	<u> </u>	<u> </u>	C	N	В	R	H R	Y	N		G	Р.	L
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ıte	M/MANUFACTURER'S NAME		LOCATIO	N.I	13031	DAY	_	l x							LEAL	ווווו	=		MFG			AFTE		1						
D	theon				250	2-8-5		720	ł						IOR	T	TER	┨	TIME			1 OC		1						
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REN	MARKS					•		•						•				•			•			•						
Lot	23 (FY09) is to be delivered in 8 r	months whic	h restores the	program to	its historical	pace o	of 24 m	onths f	or the l	Manufa	cturing	Produ	ction L	ead tin	ne for I	Lot 24	Delive	eries ha	ve beer	ı updat	ed to in	ncorpoi	rate im	pacts o	f SDD	delays	The n	inimur	n susta	ining

rate (MSR) is 250 for FMS (AIM-120C-7) plus 100 of any variant. The maximum sustaining rate is 720 missiles. The Economic Production Rate (EPR) is 700 units

P-1 Shopping List Item No. 4

Production Schedule Exhibit P-21, page 5 of 9

Exhibit P-21, Production Schedule Date: May 2009 Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number P-1 Line Item Nomenclature Missile Procurement, Air Force, Budget Activity 02, Other Missiles, Item No. 4 Advanced Medium Range Air-to-Air Missile (AMRAAM) ACCEP BALANCE FISCAL YEAR 2007 PRIOR DUE CALENDAR YEAR 2007 Ε PROC PROCUREMENT YEAR TO AS OF O N D F M M Α 0 N D F M Α M S R OTY Č C O Е U Е О Ε U U Е 1 OCT 1 OCT E Α Α P Α U U E Α Α Α U Ε 2006 2006 USAF 2005 159 159 66 84 2006 USAF 84 Awar 2007 USAF 59 59 Awar 2008 USAF 133 133 133 2005 USN 37 USN 48 48 2006 42 2007 USN 42 Awar 2008 USN 52 52 233 2005 FMS 223 14 11 40 FMS 241 233 2006 Awaı 2007 FMS 482 482 TOTAL .570 1.552 S E F E 0 D М 0 Ν М Ν С Е Е Ρ U U С 0 Ε Ρ U U U Ε 0 Α Α Α U Α PRODUCTION RATES PROCUREMENT LEAD TIME MIN SHIFT **ADMIN** SUST **HOURS** LEAD TIME **TOTAL** Α MFG LOCATION DAYS ITEM/MANUFACTURER'S NAME **AFTER** TIME Tucson, AZ 720 Raytheon 350 2-8-5 **PRIOR** AFTER 1 OCT 1 OCT 1 OCT INITIAL REORDER REMARKS Lot 23 (FY09) is to be delivered in 8 months which restores the program to its historical pace of 24 months for the Manufacturing Production Lead time for Lot 24 Deliveries have been updated to incorporate impacts of SDD delays The minimum sustaining

rate (MSR) is 250 for FMS (AIM-120C-7s) plus 100 of any variant. The maximum sustaining rate is 720 missiles. The Economic Production Rate (EPR) is 700 units

P-1 Shopping List Item No. 4

Production Schedule Exhibit P-21, page 6 of 9

Exhibit P-21, Production Schedule Date: May 2009 Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number P-1 Line Item Nomenclature Missile Procurement, Air Force, Budget Activity 02, Other Missiles, Item No. 4 Advanced Medium Range Air-to-Air Missile (AMRAAM) ACCEP BALANCI FISCAL YEAR 2009 CALENDAR YEAR 2009 PRIOR DUE Α Ε PROC PROCUREMENT YEAR TO AS OF O N D F M M O N D F M Α M S T R OTY Č O Е U Ε О Ε U 1 OCT 1 OCT C E Α Α P Α U U E Α Α P Α U U Ε Ε 2008 2005 USAF 159 159 84 2006 USAF 35 49 2007 USAF 59 59 133 133 2008 USAF Awar 133 133 2009 USAF 133 2010 USAF 191 191 191 USN 37 37 2005 48 2006 USN 25 2007 USN 42 42 2008 USN 52 52 Awar 57 2009 USN 57 Awa 2010 USN 79 79 2005 FMS 233 88 241 2006 FMS 211 30 482 435 2007 FMS 47 144 31 FMS 351 351 2008 Awar 2009 FMS 495 495 495 Awaı 250 250 250 2010 FMS 2005 USA 2006 USA 2005 USMO 2006 F-35 2007 F-35 2008 F-35 TOTAL 3.191 2,494 50 0 D М S 0 N D F М Ν F M J Μ J S J Α Ē С Е Ū U Ē С 0 Е Е Ρ U U U 0 Ε Ρ Α U Α Α Α Α Α Ν ٧ PRODUCTION RATES PROCUREMENT LEAD TIME MIN SHIFT ADMIN **HOURS** LEAD TIME **TOTAL** Α MFG ITEM/MANUFACTURER'S NAME LOCATION DAYS **AFTER** Raytheon Tucson, AZ 350 2-8-5 720 PRIOR AFTER 1 OCT 1 OCT 1 OCT INITIAL Lot 23 (FY09) is to be delivered in 8 months which restores the program to its historical pace of 24 months for the Manufacturing Production Lead time for Lot 24 Deliveries have been updated to incorporate impacts of SDD delays The minimum sustaining

rate (MSR) is 250 for FMS (AIM-120C-7s) plus 100 of any variant. The maximum sustaining rate is 720 missiles. The Economic Production Rate (EPR) is 700 units

P-1 Shopping List Item No. 4

Production Schedule Exhibit P-21, page 7 of 9

Ex	hibit P-21, Production	n Sche	dule																				Date	e: Ma	y 20	09				
App	7, 200 (200 27, 200 200 200 200 200 200 200 200 200 20														P-1 Line Item Nomenclature															
Mi	issile Procureme	nt, Air	Force	Budg	jet Act	tivit	y 02	<u>2</u> , O	the	r Mi	ssil	es,	lter	n N	o. 4			Α	dva	nce	ed N	/ledi	ium	Ra	nge	Aiı	-to	-Air		
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		V	J 411	1 OCT	1 OCT	C	О	Е	Α	Е	A	P	A	U	U	U	Е	C	О	E	A	Е	Α	P	Α	U	U	U	Е	Е
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	2007	FMS	482	482												-	-					0	- 0	0	- 0	0	- /			20
	2008	FMS	351	278		19	18	18	18																			\vdash	$\overline{}$	0
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	2010	FMS	250	0	250	_				-10				50	30	30	-10	30	- 50	- 37	30	20	20	21	21	21	21	21	21	84
	2007	F-35	8	8	0																									0
	2008	F-35	8	0	8	3	5	3																						0
TO	ΓAL		2,340	880	1,460) 42	42	40	40	62	67	75	77	60	60	62	64	62	62	63	62	41	42	43	43	43	44	44	44	176
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			_			Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	
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					MIN	SHIF		М								MIN _					١.									
					SUST	HOU		A							LEAD	TIME			MFG			TOTAL		l						
	M/MANUFACTURER'S NAME		LOCATIO		250	DAY		720	ł						IOD	I		ł	TIME			AFTER		l						
Raytheon Tucson, AZ 350 2-8-5 720 PRIOR AFTER 1 OCT 1 OCT 1 OCT 1 OCT 1 OCT														1 OCT		l														
	Initial											<u> </u>				-			ł											
REN	MARKS								INLO	VDEIN					- 0															
_	23 (FY09) is to be delivered in 8 n	nonths which	restores the	nrogram to	its historica	l nace o	of 24 m	onths f	or the N	Manufa	rturino	Produ	ction I	ead tin	ne for I	ot 24	Delive	ries hav	ve heer	undat	ed to in	cornor	ate imr	acts of	SDD	lelavs	The m	inimur	n susta	ining

Lot 23 (FY09) is to be delivered in 8 months which restores the program to its historical pace of 24 months for the Manufacturing Production Lead time for Lot 24 Deliveries have been updated to incorporate impacts of SDD delays The minimum sustaining rate (MSR) is 250 for FMS (AIM-120C-7s) plus 100 of any variant The maximum sustaining rate is 720 missiles The Economic Production Rate (EPR) is 700 units

P-1 Shopping List Item No. 4

Production Schedule Exhibit P-21, page 8 of 9

Ex	hibit P-21, Production	n Sche	dule																				Date	e: Ma	ay 20	009				
App	propriation (Treasury) Code	/CC/BA/B	SA/Item Co	ontrol Nu	mber													P-	1 Line	e Item	Nom	encla	ture							
Mi	ssile Procureme	nt, Air	Force,	Budg	et Act	ivity	<i>/</i> 02	2, O	ther	Mi	ssil	es,	Iter	n N	o. 4			Α	dva	nce	ed N	/led	ium	Ra	nge	Aiı	r-to	-Air		
		Í																M	lissi	ile (ΑM	RA	AM))						
		S		ACCEP	BALANCE					FIS	CAL Y	EAR 2										FIS		YEAR :						L
l		E	PROC	PRIOR	DUE	L	2012	_	_	_				ENDAI	YEA	R 2013				_	_		<u>C</u>	ALENI		EAR 2	014			A
l	PROCUREMENT YEAR	R	QTY	TO 1 OCT	AS OF 1 OCT	0	N O	D E	J A	F E	M A	A P	M A	J II	J II	A U	S E	0	N O	D E	J A	F E	M A	A P	M A	J U	J II	A II	S	T E
l		V		2012	2012	T	v	C	N	В	R	R	Y	N	L	G	P	T	v	C	N	В	R	R	Y	N	L	G	P	R
	2010	USAF	191	127	64	16	16	16	16																					0
	2010	USN	79	51		-	7	7	7																					0
	2010	FMS	250	166			21	21	21																			<u></u> '	L	0
TOT	「AL		520	344	176	44	44	44	44																				<u> </u>	0
						0	N	D	J	F	M	Α	M	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α	S	
l						C	0	E	A	E	A	Р	A	U	U U	U	E	C	0	E	A	E	A	P	A	U	Ų	0	E	
<u> </u>					Innonuo		V	C	N	В	R	R	Y	N		G	I P	<u> </u>	V	C	N	В	R	I R	Y	N	L L	G	<u> </u>	Щ
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ITE,	M/MANUFACTURER'S NAME		LOCATION	.I	3031	DAYS		×							LEAD	, i iivi⊏			MFG			AFTE								
	theon		Tucson, AZ		250	2-8-5		720						PR	OΡ	۸Ε	TER		TIME			1 OCT								
Kayı	meon		Tucson, AZ		330	2-0-3		720							CT		CT					1 001								
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REN	MARKS																													

Lot 23 (FY09) is to be delivered in 8 months which restores the program to its historical pace of 24 months for the Manufacturing Production Lead time for Lot 24 Deliveries have been updated to incorporate impacts of SDD delays The minimum sustaining rate (MSR) is 250 for FMS (AIM-120C-7s) plus 100 of any variant The maximum sustaining rate is 720 missiles The Economic Production Rate (EPR) is 700 units

P-1 Shopping List Item No. 4

Production Schedule Exhibit P-21, page 9 of 9

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Exhibit P-40, Budget Item Jus	tification								D	ate: May 20	009	
Appropriation (Treasury) Code/CC/BA/B	SA/Item Cont	rol Number						P-1 Line Item	n Nomenclatu	re		
Missile Procurement, Air	Force, B	Sudget Act	ivity 02,	Other Mi	ssiles, It	em No. 5	5	Hellfire	Missile			
Program Element for Code B Items	s:	0201109F			Other Relat	ed Program	Elements:		0305219F			
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	2,873	770	642	792						TBD	TBD
Total Proc Cost (\$ M)		240.771	60.030	63.397	79.699						TBD	TBD

Description

- * FY2008 funding totals includes \$60.030M of appropriated supplemental funding
- * FY2009 funding totals do not include \$57.416M requested for Overseas Contingency Operations.
- * FY 2010 funding totals do not include \$29.325M requestedfor Overseas Contingency Operations.

Hellfire is an air-to-ground missile system that provides precision-kill capability and has become a key weapon in the global war on Terrorism. Laser Hellfire uses semi-active laser terminal guidance. The latest variant provides for point target precision strike and is effective against countermeasures. The Hellfire missiles will be used by the MQ-1 and MQ-9 aircraft. Hellfire missiles will be procured through the Army's Redstone Arsenal. Unit cost may vary depending on lead Service and/or FMS procurement quantities. Prior to FY08, Hellfire missiles were procured under the Predator PE 0305219F

This program has associated Research Development Test and Evaluation funding in PE 0305219F.

FY 2010 Program Justification

Missile procurement funding for 792 AGM-114 Hellfire missiles, flight training missiles, telemetry measurement (TM) kits, load training missiles and associated spares. Multiple variants (K, M, N, P, etc.) of the Hellfire missile may be procured based upon operational requirements for various warheads and the enhanced weapon engagement zone. Quantities are based on current estimated price for purchase through the Army. The Hellfire missiles are used for test, training and operations.

P-1 Shopping List Item No. 5

Budget Item Justification Exhibit P-40, page 1 of 8

Exhibit P-5, Weapon System Cost Ana	alysis									Date: N	/lay 2009	i	
Appropriation (Treasury) Code/CC/BA/BSA/Item C	ontrol Number							P-1 Line	Item Nomen	clature			
Missile Procurement, Air Force	Budget A	Activity	02, Oth	er Miss	iles, Ite	m No. 5		Hellfir	e Missil	e			
Manufacturer's Name/Plant City/State Locat	ion			Subline Ite	em								
Varies													
Weapon System	Ident					Total	Cost in Mi	llions of D	Oollars				
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Co	st to Compl	ete
				Total			Total			Total			Total
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost
AGM-114	A	770	0.078	60.030	642	0.099	63.397	792	0.101	79.699			TBD
TOTAL PROGRAM				60.030			63.397			79.699			TBD
Comments													
Hellfire missiles will be procured through th	e Army IIni	t cost may	vary denei	nding on le	ad Service	and/or FN	1S procure	ment quar	tities Prio	r to FY08	Hellfire	missiles we	re

procured under the Predator PE 0305219F

P-1 Shopping List Item No. 5

Weapon System Cost Analysis Exhibit P-5, page 2 of 8

Exhibit P-5A, Procurement H										Date: May 2	2009	
Appropriation (Treasury) Code/CC/BA	/BSA/Ite	m Control Nur	mber					P-1 Line Ite	m Nomenclati	ıre		
Missile Procurement, Ai	ir For	ce, Budg	et Activity	02, Oth	er Missile	es, Item N	lo. 5	Hellfire	Missile			
Weapon System					Subline Ite	m						
PRDTA2												
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and	l Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revision Available?
EV 2002												
FY 2003	1 45		1,57,67		1 (100	TD	XX 110° 07 1.1	13.6	F 1 00		**	
CATM Training Round	17		ARMY		MIPR	FP	Hellfire/Lockh			Aug-03	Yes	
AGM-114(K)	80		ARMY		MIPR	FP	Hellfire/Lockh			Aug-03	Yes	
AGM-114(M) FY 2004	40		ARMY		MIPR	FP	Hellfire/Lockh	need Martin	Feb-03	Aug-03	Yes	1
AGM-114(K)	144		ARMY		MIPR	FP	Hellfire/Lockh	and Martin	Feb-04	Aug-04	Yes	
AGM-114(M)	24		ARMY		MIPR	FP	Hellfire/Lockh			Aug-04 Aug-04	Yes	
FY 2005			AKWII		WIIFIX	I'I	Tiellille/Locki	iceu iviai iii	1.60-04	Aug-04	168	
AGM-114	320		ARMY		MIPR	FP	Hellfire/Lockh	need Martin	Feb-05	Aug-05	Yes	
FY 2006	1											
AGM-114	401		ARMY		MIPR	FP	Hellfire/Lockh	need Martin	Feb-06	Aug-06	Yes	
FY 2007 with SUPP												
AGM-114	730		ARMY		MIPR	FP	Hellfire/Lockh	need Martin	Sep-07	Oct-09	Yes	
AGM-114 (SUPP)	1117		ARMY		MIPR	FP	Hellfire/Lockh	need Martin	Sep-07	Oct-09	Yes	
FY 2008 with SUPP												
AGM-114	0		ARMY		MIPR	FP	Hellfire/Lockh	need Martin	Aug-08	Dec-10	Yes	
AGM-114 (SUPP)	770		ARMY		MIPR	FP	Hellfire/Lockh	need Martin	Aug-08	Dec-10	Yes	
FY 2009												
AGM-114	642		ARMY		MIPR	FP	Hellfire/Lockh	need Martin	Mar-09	Oct-11	Yes	
FY 2010												
AQM-114	792		ARMY		MIPR	FP	Hellfire/Lockh	need Martin	Mar-10	Apr-12	Yes	
Remarks												
Hellfire missiles will be procured	through	the Army.	Prior to FY08	R. Hellfire m	issiles were	procured und	er the Predator P	E 03052191	F.			
iremire missies will be procured	unougi	r tile r iring.	11101 to 1 1 0	, 110111110 III	issies were	procured und	ior the Freducti F	E 03032171	•			
ı												
				P-1 Shop	ping List Ite	em No. 5			Proc	urement F	listory and	Planning
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Exh	nibit P-21, Productio	n Sche	dule																				Date	e: N	/lay 20	009				
Appı	opriation (Treasury) Code	CC/BA/B	SA/Item C	ontrol Nur	mber													P-′	l Line	Item	Nom	encla	ature							
Mis	ssile Procuremei	nt, Air	Force,	Budg	et Act	ivit	y 02	<u>2</u> , O	ther	Mi	ssil	es,	Iter	n N	o. 5			H	ellfi	re l	Mis	sile								
		S		ACCEP	BALANCE		****		1	FIS	CAL `	YEAR										FIS			R 2003					L
	PROCUREMENT YEAR	E R V	PROC QTY	PRIOR TO 1 OCT	AS OF 1 OCT	O C T	2001 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	R 2002 A U G	S E P	O C T	N O V	D E C	J A N	F E	M A R	ALE A P R	A	J U N	003 J U	A U G	S E P	A T E
	2003	USAF	137	2001	2001 137	1	V	<u> </u>	N	В	K	K	Y	N	L	G	P	1	V	<u> </u>	N	B Awar	K	K	Y	N	_L	137	P	R 0
TOTA	AL.	•	137	0	137																	0		L				137		0
						O C T	N O V	E C	J A N	F E B	M A R	A P R	M A Y	N U	J U I	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	Α	N U	l U	A U G	S E P	
					PRODUC*									PRO		MENT	LEAD	TIME												
ITEM	/MANUFACTURER'S NAME		LOCATION	١	MIN SUST	SHIF HOU DAYS	RS	M A X								MIN TIME			MFG			TOTA AFTEI								
Hellfi	re/Lockheed Martin		Troy, AL			1-8-5									IOR OCT		TER OCT		TIME			1 OCT	Г							
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Production Schedule Exhibit P-21, page 4 of 8

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Exh	ibit P-21, Productio	n Sche	dule																				Date	э: Мг	ay 20	09				
Appr	opriation (Treasury) Code/	CC/BA/B	SA/Item C	ontrol Nu	mber													P-	1 Line	e Item	Nom	nencla	iture							
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		S			BALANCE				_	FIS	SCAL Y	YEAR									=	FIS	SCAL Y						=	L
	PROCUREMENT YEAR	E	PROC	PRIOR TO	DUE		2003		 ,		LM	Τ.		ENDA	R YEA	R 2004			N	Б	_ T	Е		ALENE	DAR Y	EAR 20	005			A
	PROCUREMENT YEAR	R V	QTY	1 OCT	AS OF 1 OCT	O C	N O	D E	A	E	M A	P	M A	U	U	U	S E	O C	N O	D E	A	E	M A	P	A	U	U	A U	S E	T E
-	2003	USAF	137	2003	2003	T	V	 c	N	В	R	R	Y	N	╀┸	G	P	T	V	C	N	В	R	R	Y	N	 	G	Р	R 137
TOTA		USAI	137		137				\vdash		\vdash	\vdash	+-		\vdash					\Box	П			\Box	М		\Box	\Box	\neg	137
						0 C	N O X	D E	J A	F E B	M A R	A P R	M A	J J	n 1	A U	SED	0 C	; O Z	D E	J A	FE	M A	A P	M A	J	J U	A U	S E P	
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						HOU		Α							LEAD) TIME			MFG			TOTAL								
	/MANUFACTURER'S NAME re/Lockheed Martin		LOCATION Troy, AL	. <u>N</u>	 	DAYS 1-8-5		X	1					DD.	RIOR	I ^=	TER	ł	TIME			AFTEF 1 OCT								
Hellill	.e/Lockneed Martin		110y, AL		 	1-6-3		\vdash	1						OCT		OCT					1001								
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DEM	ARKS					Щ		Ь	REOF	RDER				Ь																
	re missiles will be purchased thro	nigh the Arn	ny Location	and produc	ction details :	are con	tingent	on lea	d Servi	ce cont	tracts	Prior to	o FY08	Hellfi	ire miss	siles we	re proc	ured m	nder the	Preda	tor PE	03052	19F							

Production Schedule Exhibit P-21, page 5 of 8

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Ex	hibit P-21, Productio	n Sche	dule																				Date	e: Ma	ay 20	09				
Apr	propriation (Treasury) Code	/CC/BA/B	SA/Item Co	ontrol Nu	mber													P-	1 Line	e Item	Nom	nencla	ture							
Mi	issile Procuremei	nt, Air	Force,	Budg	jet Act	ivit	y 02	<u>2</u> , O	ther	r Mi	ssil	es,	lter	n N	o. 5)		H	lellf	ire l	Mis	sile								
		S		ACCEP PRIOR	BALANCE DUE		2005			FIS	SCAL Y	YEAR		ENDA	R YEA	R 2006	5					FIS		YEAR 2		EAR 20	007			L A
	PROCUREMENT YEAR	E R V	PROC QTY	TO 1 OCT 2005	AS OF 1 OCT 2005	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	T E R
	2004	USAF	168	0	168																									168
	2005	USAF	320	0	320	-	₩		Ш	ሥ	igspace		_	-		_							—'	igwdown		igspace	—	 '	<u> </u>	320
TOT	AL		488	0	488		+	_	⊢⊹	F	\vdash	_		-	 	_	_	_	N.	_	<u> </u>	_				\vdash	⊢	⊢┯╵	_	488
						O C T	N O V	D E C	A	E B	M A R	A P R	M A Y	N N	U	Ü	S E P	O C T	N O V	D E C	A N	E B	M A R	P R	M A Y	N N	Ü	U G	S E P	
			T		PRODUCT	TION	RATES	3						PRO	CURE	MENT	LEAD	TIME												
ITEI	M/MANUFACTURER'S NAME		LOCATION		SUST	SHIF HOU DAY	RS	M A X								MIN TIME			MFG TIME			TOTAL AFTEF								
Hell	fire/Lockheed Martin		Troy, AL			1-8-5									IOR OCT	AF 1 C	TER OCT		IIIVIE			1 OCT								
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	fire missiles will be purchased thro	ough the Ari	my Location	and produc	tion details:	are con	tingent	on lead	1 Servi	ce cont	racts I	Prior to	FY08	Hellfi	re miss	iles we	re proc	ured m	nder the	Preda	tor PE	030521	19F							
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Production Schedule Exhibit P-21, page 6 of 8

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Exhibit P-21, Production	n Sche	dule																				Date	: Mɛ	ay 20)09				\neg
Appropriation (Treasury) Code	/CC/BA/B	SA/Item C	ontrol Nu	mber													P-	1 Line	Item	Nom	encla	ture							\Box
Missile Procureme	nt, Air	Force,	, Budg	get Act	ivit	y 02	2, 01	ther	Mi	ssil	es,	Iter	n N	o. 5			ΙН	ellfi	re I	Miss	sile								
PROCUREMENT YEAR	S E R	PROC OTY	PRIOR TO	BALANCE DUE AS OF	0	2007 N	D	J	F	M M	A		J	J	R 2008 A	S	0	N	D	J	F	CAL Y CA M			EAR 20	J	A	S	L A T
	V	Ì	1 OCT 2007	1 OCT 2007	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	E R
2006 2007	USAF USAF	401 730	(401 730	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	1					\rightrightarrows	730
2007SUP —	USAF USAF	1117 0	(1117																								\equiv	1117 0
²⁰⁰⁸ SUP	USAF	770	(770											Awar d													\Box	770
2009	USAF	642	(642																		Awar d							642
TOTAL	USAF	792 4,452	(792	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		igwdapsilon	\vdash	$\vdash\vdash\vdash$	$\vdash \vdash \vdash$	\dashv	792 4.091
		1,102		.,	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	A U G	S E P	1,021
ITEM/MANUFACTURER'S NAME		LOCATIO	N	SUST	SHIF SHIF HOUI DAYS	T RS	M A X						PRO	AD	MENT MIN TIME			MFG			TOTAL AFTER								
Hellfire/Lockheed Martin		Troy, AL			1-8-5			INITIA						IOR OCT	AF7 1 O			TIME			1 OCT								
DEMARKO								REOF																					
REMARKS Hellfire missiles will be purchased thro	ough the Arn	ny Location	and produc	ction details a	are con	tingent	on lead	l Servic	ce conti	racts 1	Prior to	FY08.	Hellfi	re miss	iles wer	re proc	ured un	der the	Predat	or PE (030521	19F							

Production Schedule Exhibit P-21, page 7 of 8

Exh	nibit P-21, Production	n Sche	dule																				Date	e: Ma	ay 20	009				
Appr	opriation (Treasury) Code	/CC/BA/B	SA/Item C	ontrol Nui	mber													P-	1 Line	e Item	Nom	encla	ture							
Mis	ssile Procureme	nt, Air	Force	Budg	jet Act	ivity	y 02	<u>2, O</u>	the	r Mi	ssil	es,	lter	n N	o. 5			<u> </u> H	ellf	ire I	Mis	sile								
	PROCUREMENT YEAR	S E	PROC	ACCEP PRIOR TO	BALANCE DUE AS OF	0	2009 N	D	I	FIS	CAL Y	ÆAR :		ENDAI	R YEA	R 2010 A) S	0	N	D	1	FIS		YEAR ALEN A		EAR 2	011 I	A	S	L A T
	TROCORDINAL TERM	R V	QTY	1 OCT 2009	1 OCT 2009	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	E R
_	2006	USAF	401	280																										121
	2007	USAF	730	0	730		122 158	100								186	100		202	20				-						0
	2007 2008 UP ————————————————————————————————————	USAF USAF	1117	0	1117	198	158	 							 		200	220	303	38				 						0
	2008 2008 SUP	USAF	770	0	770															466	304			†						0
	2009 UP	USAF	642	0	642															100	301									642
	2010	USAF	792	0	792						Awar d																			792
TOTA	AL .	•	4,452	280	4,172	320	280	100			0					186	300	320	303	504	304									1,555
						0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U L	A U G	S E P	
					PRODUC [*]			3						PRO	CURE	MENT	LEAD	TIME												
ITEM	/MANUFACTURER'S NAME		LOCATIO	N		SHIF HOUF DAYS	RS	M A x								MIN TIME			MFG			TOTAI AFTEI								
	re/Lockheed Martin		Troy, AL			1-8-5	,	Â						PR 1 C	IOR OCT	AFT 1 C	TER OCT		TIME			1 OCT								
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	re missiles will be purchased thro	ough the Arr	my Location	and produc	tion details a	are cont	ingent	on lead	1 Servi	ce cont	racts I	Prior to	FY08.	Hellfi	re miss	iles we	re proc	ured ur	nder the	Preda	tor PE	03052	19F							

P-1 Shopping List Item No. 5

Production Schedule Exhibit P-21, page 8 of 8

Exhibit P-40, Budget Item	Justification								D	ate: May 20	009	
Appropriation (Treasury) Code/CC/I	BA/BSA/Item Con	trol Number						P-1 Line Iter	n Nomenclatu	ire		
Missile Procurement,	Air Force, E	Budget Act	tivity 02,	Other Mi	ssiles, It	em No. 6	6	SMALL	DIAMET	ER BOMI	3	
Program Element for Code B It	ems:	N/A			Other Rela	ted Program	Elements:		SMALL D	IAMETER 1	BOMB	
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	3,014	1,395	2,612	2,340						TBD	TBD
Total Proc Cost (\$ M)		196.803	94.653	132.816	134.801						TBD	TBD

Description

FY 2010 Funding totals do not include \$7.3M requested for Overseas Contingency Operations.

- 1. Small Diameter Bomb Increment I (SDB I) is an Air Force ACAT 1C program providing increased kills per sortie on current and future aircraft platforms. SDB I addresses the following specific warfighter requirements: multiple kills per pass; multiple ordnance carriage; adverse weather, precision munitions capability; capability against fixed targets; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; and reduced susceptibility of munitions to countermeasures. Threshold aircraft is the F-15E. Objective aircraft include the F-22, F-16, F-35A, B-1, A-10, B-52, and MQ-9. SDB I completed IOT&E in Jun 06 and commenced Full Rate Production (FRP) in Dec 06. The last buy for SDB I weapons is FY15.
- 1a. Procurement quantities are estimates only and fall within a range of quantities based on price commitment curves on contract. SDB I total procurement costs include 24,000 weapons, 2,000 common four-place carriages, and associated production spares. The carriage cost is broken out separately on the P-5 exhibit. The carriage quantities are as follows: FY05-27; FY06-128; FY07-300; FY08-335; FY09-377; FY10-454. Procurement quantities also include two types of containers for the system (carriage and weapon) and Common Munitions BIT Reprogramming Equipment (CMBRE) units.
- 1b. The BRU-61/A carriage must incorporate improvements for the SDB I for compatibility and integration on the F-22 aircraft. These are new start efforts in FY10. There are a total of 4 efforts 1) An "in-rush limiter" on the current carriage power supply which regulates electrical current, 2) "Bay door interlock" addition to the current Carriage System Control Electronics (CSCE) which is a hardware and software mod that prevents release of a weapon while the bay doors are in the closed position, 3) "Mounting struts and strut provisions" added to the front and aft end of the carriage due to F-22 required 14 inch lug placement of carriage in F-22 bay, 4) additional "ejection detent settings and markings" on the carriage system for additional options for pitch rate and ejection velocities to ensure safe separation at higher Mach numbers.
- 2. Small Diameter Bomb (SDB) Focused Lethality Munition (FLM) is a Joint Capabilities Technology Demonstration (JCTD) program to increase the near field blast but decrease collateral damage, thus giving increased options to the warfighter. FLM extends access to targets restricted by collateral damage limitations. The technical approach combines and leverage four technologies: 1) MBX-1209 Multi-Phase Blast Explosive (MBX) increases near-field blast impulse over SDB I, reduces collateral damage in far-field and allows designer to approximate SDB I weight and balance, 2) A carbon fiber warhead case which disintegrates upon fill detonation, minimizing fragmentation effects to personnel and property, 3) Using SDB I hardware except warhead and approximating SDB I longitudinal center of gravity, weapon software changes allow it to match SDB I accuracy, 4) remains compatiable with the BRU-61 miniature carriage and SDB I container system. FLM completed the original JCTD activities in August 08. The FY08 supplemental funds will procure 100 additional residual weapons. Contract award occurred in Mar 09.
- 3. Small Diameter Bomb Increment II (SDB II) is an Air Force-led joint interest program with the Navy providing the warfighter a capability to attack mobile targets from stand-off in weather. SDB II addresses the following warfighter requirements: attack mobile targets, adverse weather operations, multiple kills per pass, multiple ordnance carriage, precision munitions capability, capability against fixed targets, reduced munitions footprint, increased weapons effectiveness, minimized potential for collateral

P-1 Shopping List Item No. 6

Budget Item Justification Exhibit P-40, page 1 of 8

Exhibit P-40, Budget Item Justification	Date: May 2009
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number	P-1 Line Item Nomenclature
Missile Procurement, Air Force, Budget Activity 02, Other Missiles, Item No. 6	SMALL DIAMETER BOMB

Description Continued

damage, and provides a migration path to net-centric ops capability. Threshold aircraft for the US Air Force is the F-15E and the F-35 B/C Joint Strike Fighter (JSF) for the US Navy. Objective aircraft include: F-22, F-35, F-16, A-10, MQ-9, B-1, B-2, B-52, and the F/A-18. SDB II will be compatible with the BRU-61 miniature munitions carriage and the SDB I container systems. SDB II began a competitive Risk Reduction phase in FY06 with Milestone B planned for FY10. SDB is a key component of the Air Force's Global Strike Task Force CONOPS.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0604329F.

FY 2010 Program Justification

FY10 is the sixth year of Production with the procurement of 2,340 SDB I weapons and 454 carriages.

P-1 Shopping List Item No. 6

Budget Item Justification Exhibit P-40, page 2 of 8

Exhibit P-5, Weapon System Cost Analy	sis .									Date: N	/lay 2009		
Appropriation (Treasury) Code/CC/BA/BSA/Item Cont Missile Procurement, Air Force, E		Activity	02, Oth	er Missi	les, Ite	m No. 6			Item Nomen		ВОМВ		
Manufacturer's Name/Plant City/State Location	1			Subline Ite	m								
Boeing, St Charles MO													
Weapon System	Ident					Total	Cost in Mil	llions of I	Oollars				
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Co	st to Comp	lete
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
All Up Round Weapon, Increment I (used to calculate unit cost only)		1395	0.023	31.847	2612	0.023	59.268	2340	0.022	52.035	TBD		TBD
All Up Round Weapon, Increment II (used to calculate unit cost only)		0		0.000	0		0.000	0		0.000	TBD		TBD
All Up Round Carriage, Increment I (used to calculate unit cost only)		335	0.098	32.816	377	0.099	37.178	454	0.097	44.194	TBD		TBD
	A			00.445			101.07						
Production	В			89.417			121.274			123.318			TBE
ECO Contractor Incentive	В			0.211			0.815			4.317			TBE TBE
Test - Gov't	A B			2.107			1.037			2.422			TBD
Operational Flight Program (OFP)	В			0.742			4.286			0.833			TBE
Mission Support	A			0.096			0.530			0.723			TBE
A&AS	A			1.530			4.014			2.153			TBE
PMA	A			0.550			0.860			1.035			TBD
Total Flyaway Cost Increment I	A	1395	0.068	94.653	2612	0.051	132.816	2340	0.058	135.422			
Total Flyaway Cost Increment II											TBD		TBE
TOTAL PROGRAM				94.653			132.816			134.801			TBD

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Exhibit P-5A, Procurement										Date: May 2	2009	
Appropriation (Treasury) Code/CC/									m Nomenclati		_	
Missile Procurement,	Air Ford	ce, Budge	et Activity	/ 02, Oth	er Missilo	es, Item N	lo. 6	SMALL	. DIAMET	ER BOM	В	
Weapon System					Subline Ite	em						
SDB		_										
										Date of	Specs	Date
			Location of	RFP Issue	Contract	Contract				First	Available	Revision
WBS Cost Elements	Qty	Unit Cost	PCO	Date	Method	Туре	Contractor and	d Location	Award Date	Delivery	Now?	Available?
FY2005	283		Eglin AFB		SS	FFP	Increment I - I		Apr-05	Apr-06	No	N/A
FY2006	701		Eglin AFB		SS	FFP	Increment I - I		Oct-05	Feb-07	No	N/A
FY2007	1343		Eglin AFB		SS	FFP	Increment I - I		Dec-06	Dec-07	No	N/A
FY07 SUPP	687		Eglin AFB		SS	FFP	Increment I - I		Dec-07	Jan-09	No	N/A
FY2008	1395		Eglin AFB		SS	FFP	Increment I - I	Boeing	Dec-07	Jan-09	No	N/A
FY2009	2612		Eglin AFB		SS	FFP	Increment I - I		Dec-08	Jan-10	No	N/A
FY2010	2340	0.058	Eglin AFB		SS	FFP	Increment I - I	Boeing	Dec-09	Jan-11	No	N/A
Remarks												
SDB I system includes weapon	c and carri	iages only s	veanon quant	ity chown al	201/0							
SDD i system merades weapon	s and carr	lages only v	veapon quant	nty snown at	oove.							
SDB II is currently in a compet	itivo Diele	Daduction D	hasa with a d	oven coloot te	o one contro	ator in 2000 s	and a Milastona P	docision i	n 1st augstar	EV10		
SDB it is currently in a compet	HIVC KISK	Reduction 1	nasc with a u	OWII SCICCI II	one contra	ctor iii 2009 t	and a Winestone L	decision i	ii ist quarter	1 110.		
				P-1 Shop	ping List Ite	em No. 6			Proc		listory and	
										Exhib	oit P-5A, pa	ige 4 of 8

Ex	hibit P-21, Productio	n Sche	dule															\perp					Date	e: Ma	ıy 20	09				
App	propriation (Treasury) Code	/CC/BA/B	SA/Item C	ontrol Nu	mber													P-	-1 Line	e Item	Nom	iencla	iture							
Mi	issile Procureme	nt, Air	Force	, Budç	jet Act	ivit	y 02	<u>2, O</u> f	the	r Mi	ssil	es,	lter	n N	o. 6			S	MA	LL I	DIA	ME	TEF	≀ BC)ME	3				
		S	PROC	ACCEP PRIOR	BALANCE DUE		2005	\equiv		FIS	SCAL Y	ŒAR 2		ENDA	R YEA	R 2006	5					FIS		YEAR 2 ALENI		EAR 2	.007	<u> </u>	\equiv	L A
<u> </u>	PROCUREMENT YEAR	R V	QTY	TO 1 OCT 2005	AS OF 1 OCT 2005	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	T E R
	2005	USAF	283	, 0	283	\Box	\Box	\Box	\Box	\Box	\Box	16	20	26	48	50	39											\Box	=	84
 _ '	2006	USAF	701	0	701	Awar d	.['	!	'	1'	'	_	_		_						_	61	80	80	100	54	64	68	60	134
\bigcap	2007	USAF	1343	0	1343	,														Awar d										1343
	²⁰⁰⁷ SUP —	USAF	687	0	687			\Box		\square'	\square'																	\square'	\Box	687
	2008	USAF	1395		1395		<u> </u>	\Box	<u>—</u> '	—′	<u>—</u> '					\square			igsquare	\square	\square		匚			\square		<u> </u>	—′	1395
	2009	USAF	2612		2612		↓ ′	₩	↓ —'	↓ —'	 -'	<u> </u>	<u> </u>	<u> </u>	igsquare	ш	ــــــ		igsquare	igspace			<u> </u>	<u> </u>	└ ─'	ш	lacksquare	—'	——'	2612
	2010	USAF	2340		2340		↓ ′	igspace	↓ —_′	↓ ′	 -'	<u> </u>	<u> </u>	<u> </u>	ليب		<u> </u>	<u> </u>	igsquare		igspace	Щ.	<u> </u>	ليب	<u> </u>	ليسا	ليسا	₩.	—— ′	2340
TOT	AL		9,361	0	9,361		 '	ليا	├ —'	└ ─'	├ '	16	20	26	48	50			\sqcup	0	⊢. -I	61	80	1	100	54	64	68		8,595
					ļ	O C T	0 V	D E C	A	F E B	A R	P R	M A Y	N N	n n	U G	S E P	O C T	N O V	E C	J A N	E B	A R	P R	A Y	N N	n n	U G	S E P	
-					PRODUCT	TION	RATES	3 7						PRO	CURE	MENT	LEAL	TIME						一一				<u> </u>		
	······································				MIN SUST	SHIF	T RS	M A							ADI	MIN TIME			MFG			TOTAL	_							
	M/MANUFACTURER'S NAME ement I - Boeing		LOCATION St Charles 1			DAYS 5 1-8-5		X 4,661						PRI 1 C	IOR OCT	AFT 1 O	_		TIME			AFTEF 1 OCT								
\vdash			\vdash		 '	\vdash			INITIA REOF	RDER					6 0		12 12			6 12			18 24							
REM	MARKS arriage deliveries are on the same s																													
1 (2	arriage deliveries are on the same /	schedule as r	weanons A	total of 1.62	4 carriages v	will be ≛	orocure	.d betw	zeen EV	(05 - F)	Y10 (F)	Y05 - 2	// carri	ages F	Y ()6 - 1	28 FY	707 - 2	300 F2	YOX - 37	35 FY	09 - 37	// FY	1() - 45	14) Mc	ist carr	lages W	∄ll be d	.ielivere	∴d in	

P-1 Shopping List Item No. 6

Production Schedule Exhibit P-21, page 6 of 8

¹ Carriage deliveries are on the same schedule as weapons A total of 1 624 carriages will be procured between FY05 - FY10 (FY05 - 27 carriages FY06 - 128, FY07 - 300, FY08 - 335, FY09 - 377, FY10 - 454) Most carriages will be delivered in containers with weapons. The remaining weapons will be delivered in their individual containers

² SDB II is currently in a competitive Risk Reduction Phase with a down select to one contractor in 2009 and a Milestone B decision in 1st quarter FY10 Delivery schedule for SDB II TBD based on selected contractor

Exhi	bit P-21, Productio	n Sche	dule																				Date	: Ma	y 20	09				
Appro	priation (Treasury) Code/	CC/BA/B	SA/Item C	ontrol Nur	mber													P-	1 Line	e Item	Nom	encla	ture							
Mis	sile Procuremer	nt, Air	Force,	Budg	et Act	ivit	y 02	2, O1	her	Mi	ssil	es,	lten	n N	o. 6			S	MA	LL I	DIAI	ME	ΓER	BC	ME	3				
		S E	PROC	ACCEP PRIOR	BALANCE DUE		2007			FIS	CAL Y	EAR 2		ENDAI	R YEA	R 2008						FIS	CAL Y Ca	EAR 2		EAR 20	009			L A
	PROCUREMENT YEAR	R V	QTY	TO 1 OCT 2007	AS OF 1 OCT 2007	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	T E R
2	005	USAF	283	199	84			7	7	7	7	7	7	7	7	7	7	7	7	Ŭ	- 1		-1					Ü		0
	006	USAF	701	0	701			11	11	11	11	11	11	11	11	11	11	12	12	$\overline{}$										567
2	007	USAF	1343	0	1343	0	0	111	112	112	112	112	112	112	112	112	112	74	75	75										0
2	⁰⁰⁷ SUP	USAF	687	0	687			Awar d													57	57	57	57	57	57	57	57	57	174
2	008	USAF	1395	0	1395			Awar d													116	116	116	116	116	116	116	116	116	351
2	009	USAF	2612	0	2612															Awar d										2612
2	010	USAF	2340	0	2340																									2340
TOTAL	_		9,361	199	9,162	0	0	129	130	130	130	130	130	130	130	130	130	93	94	75	173	173	173	173	173	173	173	173	173	6,044
						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	
					PRODUCT	TION F	RATES	3						PRO	CURE	MENT	LEAD	TIME												
ITEM/N	MANUFACTURER'S NAME		LOCATIO		SUST	SHIF HOUI DAYS	RS	M A X								MIN TIME			MFG			TOTAL AFTER								
	ent I - Boeing		St Charles I			1-8-5		4,661						PR	IOR	AF1	ΓER		TIME			1 OCT								
														1 C	CT	10														
								$\vdash \vdash$	INITIA						6		12			6			18							
REMA	RKS		l						REOF	RDER					0	l	12			12			24							

P-1 Shopping List Item No. 6

Production Schedule Exhibit P-21, page 7 of 8

¹ Carriage deliveries are on the same schedule as weapons A total of 1 624 carriages will be procured between FY05 - FY10 (FY05 - 27 carriages FY06 - 128, FY07 - 300, FY08 - 335, FY09 - 377, FY10 - 454) Most carriages will be delivered in containers with weapons The remaining weapons will be delivered in their individual containers

² SDB II is currently in a competitive Risk Reduction Phase with a down select to one contractor in 2009 and a Milestone B decision in 1st quarter FY10 Delivery schedule for SDB II TBD based on selected contractor

Ex	hibit P-21, Productio	n Sche	dule																				Date	: Ма	ıy 20	09				
App	propriation (Treasury) Code	/CC/BA/B	SA/Item C	ontrol Nur	mber													P-	1 Line	e Item	Nom	encla	ture							
Mi	ssile Procureme	nt, Air	Force	, Budg	et Act	ivit	y 02	2, O	ther	Mi	ssil	es,	Iter	n N	o. 6			S	MA	LL I	DIA	ME	TER	BC	ME	3				
		S			BALANCE		2000			FIS	CAL Y	EAR		CNIDA	N. N. C. A.	D 2010						FIS	CAL Y			EAD 20	211			L
	PROCUREMENT YEAR	Е	PROC	PRIOR TO	DUE AS OF	0	2009 N	D	Ţ	F	M	A	M	ENDA I	R YEA	R 2010 Δ	S	0	N	D	ĭ	F	М	ALENL	M M	EAR 20	J11	A	S	A T
	TROCCREMENT TEAR	R	QTY	1 OCT	1 OCT	C	o	E	A	E	A	P	A	U	U	U	E	C	o	E	A	E	A	P	A	U	U	Ü	E	Ē
		V		2009	2009	T	V	Ċ	N	В	R	R	Y	N	Ĺ	Ğ	P	T	v	Ċ	N	В	R	R	Y	N	Ĺ	G	P	R
	2005	USAF	283	269	14																									14
	2006	USAF	701	677																								igsquare		24
	2007	USAF	1343	1119																								\vdash		224
	2007 2008 SUP	USAF	687 1395	0	687 1395	58	58 117	58 117																				\vdash		513 1044
	2008	USAF USAF	2612	0	2612	11/	117	11/	217	218	218	218	218	218	218	218	218	217	217	217			\vdash					\vdash		1044
\vdash				0				Awar	217	210	210	210	210	210	210	210	210	217	217	217			\vdash					\vdash	$\neg \neg$	U
	2010	USAF	2340	0	2340			d													195	195	195	195	195	195	195	195	195	585
TOT	AL		9,361	2,065	7,296	175	175	175	217	218	218	218	218	218	218	218	218	217	217	217	195	195	195	195	195	195	195	195	195	2,404
l						0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	M	J	J	Α	S	1 !
l						C	0	E	A	E	A	Р	A	U	U	U	E	C	0	E	A	E	A	Р	A	U	U	U	E	
\vdash					PRODUCT		V	<u> </u>	N	В	R	K	Y	DDO		MENIT	IEAR	TIME	V	C	N	В	I K	R	Y	N	L	G	<u> </u>	
						SHIF		М						I	ADI		LLAL	I												-
						HOU		A								TIME						TOTAI								
ITEN	M/MANUFACTURER'S NAME		LOCATIO	N		DAYS	3	Х											MFG TIME			AFTER	٦							
Incre	ement I - Boeing		St Charles	MO	1,395	1-8-5		4,661						PR	IOR	AF	ΓER	1	IIIVIE			1 OCT	-							
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DEN	MARKS		L						REOF	KDER				I	0		12	I		12			24							
INCIN	MANNO																													

P-1 Shopping List Item No. 6

Production Schedule Exhibit P-21, page 8 of 8

¹ Carriage deliveries are on the same schedule as weapons A total of 1 624 carriages will be procured between FY05 - FY10 (FY05 - 27 carriages FY06 - 128, FY07 - 300, FY08 - 335, FY09 - 377, FY10 - 454) Most carriages will be delivered in containers with weapons. The remaining weapons will be delivered in their individual containers

² SDB II is currently in a competitive Risk Reduction Phase with a down select to one contractor in 2009 and a Milestone B decision in 1st quarter FY10 Delivery schedule for SDB II TBD based on selected contractor

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Exhibit P-40, Budget Item Jus	stification								D	ate: May 2	009	
Appropriation (Treasury) Code/CC/BA/	BSA/Item Con	trol Number						P-1 Line Iten	n Nomenclatu	re		
Missile Procurement, Ai	r Force, E	Budget Act	tivity 02,	Other Mi	ssiles, It	em No. 7	7	Industri Prevent	•	redness/	Pollution	1
Program Element for Code B Item	s:	N/A			Other Relat	ted Program	Elements:		N/A			
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	Qty A											
Total Proc Cost (\$ M)												5.608

Description

The Air Force Industrial Preparedness program element combines the resources of several appropriations (Aircraft Procurement, Missile Procurement, Other Procurement, Operation and Maintenance Procurement, and Research, Development Test and Evaluation Procurement) to create a comprehensive program that ensures the defense industry can supply reliable, affordable systems to operational commanders. The Missile Procurement part of Industrial Preparedness supports the management of government-owned industrial plants. The Industrial Facilities activity at Air Force Plant 44, Tucson, AZ, is funded within this appropriation. In addition, this appropriation provides for environmental compliance and capital type rehabilitation at Air Force Plant 44. This plant is the backbone of Department of Defense (DoD) weapon systems assembly and maintenance supporting Cruise, Chaparral, Phalanx, Standard Missiles, Advanced Medium Range Air-to-Air Missile, Joint Stand-Off Weapon, High-speed Antiradiation Missile, Tomahawk, and numerous other weapon systems.

FY 2010 Program Justification

For FY 2010, this portion of the Air Force Industrial Preparedness program funds the repair and capital rehabilitation of Air Force Plant 44, a unique defense asset which supports the production of several missile systems for the Air Force and the Navy.

P-1 Shopping List Item No. 7

Budget Item Justification Exhibit P-40, page 1 of 2

Exhibit P-5, Weapon System Cost Analy	sis .									Date: N	/lay 2009		
Appropriation (Treasury) Code/CC/BA/BSA/Item Con	trol Number							P-1 Line	Item Nomen	clature			
Missile Procurement, Air Force, E	Budget A	Activity	02, Oth	er Miss	iles, Ite	m No. 7		Indus	trial Pre	paredn	ess/Po	llution	
								Preve	ention				
Manufacturer's Name/Plant City/State Location	1			Subline Ite	em								
Weapon System	Ident					Total	Cost in Mi	llions of I	Oollars				
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Co	st to Comp	lete
				Total			Total			Total			Total
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost
Industrial Base Assessment (MPC 6000)	A			0.605			0.598			0.591			
Environmental Compliance (MPC 7000)	A			0.803			0.823			0.250			
Pollution Prevention	A			0.958			0.980			0.000			
TOTAL PROGRAM				2.366			2.401			0.841			
Comments													

Pollution Prevention funding for Industrial Responsiveness was previously included in this P-1. Beginning with FY 2010, Pollution Prevention funding for Industrial Facilities is realigned to Industrial Preparedness within Aircraft Procurement.

P-1 Shopping List Item No. 7

Weapon System Cost Analysis Exhibit P-5, page 2 of 2

FISCAL YEAR (FY) 2010 BUDGET ESTIMATES BUDGET ACTIVITY 03 – MODIFICATION OF IN-SERVICE MISSILES MAY 2009

PAGE 3 – 0

UNCLASSIFIED

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Table of Contents

FY 2010 AMENDED PRESIDENT'S BUDGET

MISSILE PROCUREMENT MODIFICATIONS, AIR FORCE

Section 1:	P-1M Modification Summary	3-1
Missile Mod	lifications	
8	AGM129	3-6
9	LGM-30	3-12
10	AGM-65	3-34
11	AGM-88	3-38
12	AGM-86	3_42

	TOTAL FOR M	IISSILE AGM-6	5	0.2	0.3	0.3	0.3							1.0
	TOTAL FOR C	LASS P		0.2	0.3	0.3	0.3			,				1.0
MISSILE AGM-65	<u>CLASS</u> P	MOD <u>NR</u> 650002	MODIFICATION TITLE AGM-65 B TO H UPGRA	PRIOR 0.2	<u>FY-08</u> 0.3	<u>FY-09</u> 0.3	<u>FY-10</u> 0.3	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	COST TO GO	TOTAL <u>PROG</u> 1.0
05/01/2009														

MISSILE AGM-88	CLASS P TOTAL FOR C	MOD <u>NR</u> _2984	MODIFICATION TITLE HARM Control Section M	PRIOR 0.0	<u>FY-08</u>	FY-09 0.0	FY-10 30.3 30.3	<u>FY-11</u>	FY-12	FY-13	<u>FY-14</u>	<u>FY-15</u>	COST TO GO	TOTAL <u>PROG</u> 30.3 30.3
		MISSILE AGM-88	- ·	0.0	0.0	0.0	30.3							30.3

	TOTAL FOR	MISSILE AGM-86	-	62.7	10.0	10.1	0.0							82.9
	TOTAL FOR	CLASS P		62.7	10.0	10.1	0.0							82.9
		860001	AGM-86B SERVICE LIFE	62.0	9.9	10.1								82.1
MISSILE AGM-86	<u>CLASS</u> P	MOD <u>NR</u> _0468	MODIFICATION TITLE LOW COST MODIFICATI	PRIOR 0.7	<u>FY-08</u> 0.1	FY-09	FY-10	FY-11	<u>FY-12</u>	FY-13	<u>FY-14</u>	<u>FY-15</u>	COST TO GO	TOTAL <u>PROG</u> 0.8
05/01/2009														

	TOTAL FOR	CLASS P	-	0.0	0.6	0.0	0.0							0.7
		129001	SERVICE LIFE EXTENSI		0.6									0.6
MISSILE AGM129	<u>CLASS</u> P	MOD <u>NR</u> _9622	MODIFICATION TITLE LOW COST MODIFICATI	PRIOR	<u>FY-08</u> 0.0	<u>FY-09</u> 0.0	<u>FY-10</u> 0.0	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	COST TO GO	TOTAL <u>PROG</u> 0.1
05/01/2009		1100	MODIFICATION										0007	TOTAL

05/01/2009

MISSILE LGM-30	<u>CLASS</u> P	MOD <u>NR</u> 13503B	MODIFICATION <u>TITLE</u> MM III GUIDANCE REPL	<u>PRIOR</u> 1,818.3	<u>FY-08</u> 1.9	<u>FY-09</u> 1.2	<u>FY-10</u>	<u>FY-11</u>	<u>FY-12</u>	<u>FY-13</u>	<u>FY-14</u>	<u>FY-15</u>	COST TO GO	TOTAL <u>PROG</u> 1,821.3
		5053	MM III PROPULSION RE	1,944.5	249.1	61.7								2,255.3
		5739	ENVIRONMENTAL CON	86.4	60.4	60.9	50.9							258.6
		5747	MM III TRAINERS BLOC	7.4	1.1									8.5
		5768	PSRE LIFE EXTENSION	69.7	29.8	27.7	26.2							153.4
		5911	SAFETY ENHANCED RE	204.2	64.9	48.3								317.3
		5912	MINUTEMAN SURGE PR	15.8	2.5									18.3
		5914	ICBM SECURITY MODE	159.5	98.9	93.7	77.7							429.8
		5917	Mintueman III Solid Rocke				43.0							43.0
		99999X	LOW COST MODIFICATI	12.0	3.9	2.1	1.6							19.6
	TOTAL FOR C	LASS P	_	4317.8	512.4	295.5	199.5							5325.1
	TOTAL FOR M	IISSILE LGM-30	_	4317.8	512.4	295.5	199.5							5325.1

			BUDGET ITEM J (EXHIBI		DATE May 2009			
APPROPRIATION/I	BUDGET ACTIVITY EMENT-AIR FORCE	:/MISSILE Modificat		P-1 ITEM NOMENO	LATURE: AGM129			
	2008	2009	2010	2011	2012	2013	2014	2015
COST (In Mil)	\$0.584	\$0.042	\$0.032					

FY2008 funding totals include \$.553M of appropriated supplemental funding.

The Advanced Cruise Missile (ACM) is a low-observable air-launched, strategic missile with significant improvements in range, accuracy and survivability over the Air Launched Cruise Missile (ALCM). The overall goal of the modification budgeted in FY10 is to extend operational capability of the ACM weapons system via the Low Cost mod program.

CLASS P	MOD NR _9622	MODIFICATION TITLE LOW COST MODIFICATION	EY-08 0.0	<u>FY-09</u> 0.0	EY-10 0.0	EY-11	FY-12	EY-13	FY-14	EY-15	COST TO GO	TOTAL PROG 0.1
	129001	SERVICE LIFE EXTENSION -	0.6									0.6
TOTAL FO	R CLASS P	-	0.6	0.0	0.0							0.7
TOTAL FO	R WEAPON S	SYSTEM AGM129	0.6	0.0	0.0							0.7

Totals may not add due to rounding.

TOTAL PROG includes Prior Year and Cost To Go dollars.			
	P-1 SHOPP LIST	PAGE NO.	
	ITEM NO. 8	1	

UNCLASSIFIED MODIFICATION OF MISSILE

Center: OC-ALC - Tinker AFB Okla City, OK

05/01/2009 FY 2010 PB Modification Title and No: LOW COST MODIFICATION MN-_9622

Exhibit P3A Congressional Appropriation: Missile Procurement, Air Force CLC: AGM129 Class P

PE 0101120F

Team SPACE

Description/Justification

Models of Missile Affected: AGM-129A

AGM-129 Advanced Cruise Missile (ACM) is a low-observable air-launched strategic missile with significant improvements over the Air Launched Cruise Missile (ALCM) in range, accuracy and survivability. The ACM is designed for B-52H external carriage. Armed with a W-80 warhead, it is designed to evade air and ground-based defenses in order to strike heavily defended, hardened targets. There are currently 394 ACM in the active inventory, but there are only 38 test instrumentation doors that may require the interface changes. W-80 Life Extension Program (LEP) replaces warhead components to extend its life. The National Nuclear Security Administration (NNSA) is responsible for most of the refurbishment costs associated with the warhead. The Air Force is responsible for funding W-80 LEP integration onto the ACM. Integration includes evaluation of the Initial Concept Design (ICD), Interface change evaluation, missile testing, and logistics requirements in order to support a First Production Unit (FPU). The known logistic procurement costs include Test Instrumentation Kit cable and hoist beam modifications and technical data. The JTIK modification also requires modification of ACM nosecones as well as payload doors. Each nosecone must be retrofitted with a GPS antenna. Since there are a limited number of nose cones available for mod, each unmodified nose cone must be removed prior to each test flight and replaced with a modified nose cone. The unmodified nose cones are accumulated (2-4 per year) and modified at one time. This is a recurring annual effort to support the JTIK flights.

Missile Breakdown: Active 38, Reserve 0, ANG 0, Total 38

Development Status

Development is in the Initial Concept Design phase and interface change request are being evaluated. Support for test planning and Project Officers Group meetings are required.

Projected Financial Plan	DD	IOD	TX.	. 00	EX	. 00	EX	7.10	EX	7 11	EV	10
		IOR		-08		-09		′-10		′-11		-12
RDT&E (3600)	OTY	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	<u>COST</u>
PROCUREMENT (3020) INSTALL KITS KITS NONRECUR EQUIPMENT EQUIP NONREC CHANGE ORDERS												
DATA SIM/TRAINER SUPPORT-EQUIP INSTALLATION OF HARDWARE TOTAL INSTALL				0.031		0.042		0.032				
TOTAL COST (BP-2100) (Totals may not add due to rounding) INSTALLATION QTY				0.031		0.042		0.032				-

Fact Sheet: AGM129 MN-_9622 LOW COST MODIFICATION (Continued)

(Continued)

FY-13 FY-14 FY-15 TO COMP TOTAL **OTY COST OTY COST OTY COST OTY COST OTY COST** RDT&E (3600) PROCUREMENT (3020) INSTALL KITS KITS NONRECUR **EQUIPMENT EQUIP NONREC** CHANGE ORDERS 0.105 DATA SIM/TRAINER SUPPORT-EQUIP INSTALLATION OF HARDWARE TOTAL INSTALL TOTAL COST (BP-2100) 0.105 (Totals may not add due to rounding) INSTALLATION QTY Method of Implementation: CONTRACTOR FACILITY Initial Lead Time: 9 Months Follow-On Lead Time: 0 Months

Milestones

Contract Date (Month/CY) Delivery Date (Month/CY) Contract Date (Month/CY) Delivery Date (Month/CY) **Installation Schedule** <u>FY-10</u> 2 3 Ouarter 1 Input Output <u>FY-16</u> 2 3 4 <u>FY-18</u> 2 3 4

FY-13

FY-14

FY-15

FY-16

FY-17

FY-18

FY-19

FY-20

FY-21

Input Output

Ouarter

FY-07

FY-08

FY-09

FY-10

FY-11

FY-12

Exhibit P3A Congressional

Class P

Appropriation: Missile Procurement, Air Force

CLC: AGM129

05/01/2009 MODIFICATION OF MISSILE FY 2010 PB

Modification Title and No: SERVICE LIFE EXTENSION PROGRAM MN-129001

Center: OC-ALC - Tinker AFB Okla City, OK Team SPACE Models of Missile Affected: AGM-129A PE 0101120F

Description/Justification

AGM-129 Advanced Cruise Missile (ACM) is a low-observable air-launched strategic missile with significant improvements over the Air Launched Cruise Missile B version (ALCM-B) in range, accuracy and survivability. Armed with a W-80 warhead, it is designed to evade air and ground-based defenses in order to strike heavily defended, hardened targets at any location within any enemy's territory. The ACM is designed for B-52H external carriage and there are currently 394 ACM in the inventory. The ACM fleet design service life expires between the years 2003 and 2008. A Service Life Extension Plan (SLEP) was developed to meet an AF Long Range Plan requirement to extend ACM Service Life to FY30.

Range Commanders Council (RCC) test range safety requirements (RCC-319) and Department of Energy's (DOE) redesign of the Joint Test Assembly (JTA) is driving modification of existing Joint Test Instrumentation Kit (JTIK) test doors. Newly modified JTIK test doors will incorporate Global Positioning System (GPS) tracking capability and components removed from the redesigned JTA package. Without modified JTIK doors, the ACM cannot maintain its DOE nuclear certification, support the W-80 warhead Life Extension Program (LEP) or conduct flight testing used to collect weapon system reliability data.

The requirement exists to provide modified Test Instrumentation Kits (TIKs) to support Functional Ground Test (FGT). FGT will provide a critical capability to the Air Force and provide a means of testing the ACM without the loss of an asset. These tests will provide important reliability data for Service Life Extension analysis. Kit modification and unique spare components will be procured to support tests in the FGT facility.

Missile Breakdown: Active 38, Reserve 0, ANG 0, Total 38

Development Status

The ACM SLEP is a continuing effort to identify potential missile degredation and recommend solutions before they can become fleet wide issues. The SLEP is currently in Phase III, Implementation. Initial SLEP assessment required the development of a mod kit and modification of existing JTIK doors.

Projected Financial Plan												
	PR	IOR	FY	7-08	FY	7-09	FY	7-10	FY	-11	FY	-12
	OTY	COST	OTY	COST	OTY	COST	<u>OTY</u>	COST	QTY	COST	<u>OTY</u>	COST
RDT&E (3600)												
PROCUREMENT (3020)												
INSTALL KITS												
KITS NONRECUR												
EQUIPMENT												
EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT-EQUIP				0.553								
OGC												
TOTAL COST (BP-2100)												
(Totals may not add due to rounding)				0.553								

Fact Sheet: AGM129 MN-129001 SERVICE LIFE EXTENSION PROGRAM (Continued)

(Continued)

TOTAL FY-13 FY-14 FY-15 TO COMP **OTY COST OTY COST OTY COST OTY COST OTY COST** RDT&E (3600)

PROCUREMENT (3020)

INSTALL KITS

KITS NONRECUR

EQUIPMENT

EQUIP NONREC

CHANGE ORDERS

DATA

SIM/TRAINER

SUPPORT-EQUIP

OGC

TOTAL COST (BP-2100)

0.553 (Totals may not add due to rounding)

Method of Implementation: ORG/INTERMEDIATE

Initial Lead Time: 20 Months

Follow-On Lead Time: 10 Months

Milestones

FY-07 FY-08 FY-09 FY-10 FY-11 FY-12 FY-13 FY-14 FY-15 FY-16 FY-17 FY-18 FY-19 FY-20 FY-21

0.553

Contract Date (Month/CY)

Delivery Date (Month/CY)

Contract Date (Month/CY)

Delivery Date (Month/CY)

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			BUDGET ITEM J (EXHIBI			DATE May 2009		
APPROPRIATION/E	BUDGET ACTIVITY EMENT-AIR FORCE	/MISSILE Modificat		P-1 ITEM NOMENO	CLATURE: LGM-30			
	2008	2009	2010	2011	2012	2013	2014	2015
COST (In Mil)	\$512.408	\$295.479	\$199.484					

This line item funds modifications to the LGM-30, Minuteman III Intercontinental Ballistic Missile (ICBM) weapon system. The Minuteman III is a strategic missile capable of delivering special weapons against a full range of targets. The purpose of the modifications budgeted in FY10 is to extend the operational capability of the Minuteman ICBM through fiscal year 2020. The two main modifications being performed to the LGM-30 are the ICBM Security Modernization and Minuteman MEECN Modifications.

CLASS P	MOD NR 13503B	MODIFICATION TITLE MM III GUIDANCE REPLAC	EY-08 1.9	EY-09 1.2	EY-10	EY-11	EY-12	EY-13	EY-14	EY-15	COST TO GO	TOTAL PROG 1,821.3
	5053	MM III PROPULSION REPLA	249.1	61.7								2,255.3
	5739	ENVIRONMENTAL CONTR	60.4	60.9	50.9							258.6
	5747	MM III TRAINERS BLOCK U	1.1									8.5
	5768	PSRE LIFE EXTENSION PR	29.8	27.7	26.2							153.4
	5911	SAFETY ENHANCED REEN	64.9	48.3								317.3
	5912	MINUTEMAN SURGE PROT	2.5									18.3
	5914	ICBM SECURITY MODERNI	98.9	93.7	77.7							429.8
	5917	Mintueman III Solid Rocket M			43.0							43.0
	99999X	LOW COST MODIFICATION	3.9	2.1	1.6							19.6
TOTAL FOR	R CLASS P	_	512.4	295.5	199.5			_	_			5325.1
TOTAL FOR	R WEAPON SY	STEM LGM-30	512.4	295.5	199.5							5325.1

Totals may not add due to rounding.

TOTAL PROG includes Prior Year and Cost To Go dollars.

ITEM NO. 9

Exhibit P3A Congressional

Class P

Appropriation: Missile Procurement, Air Force CLC: LGM-30

05/01/2009 MODIFICATION OF MISSILE FY 2010 PB

Modification Title and No: MM III GUIDANCE REPLACEMENT PROGRAM MN-13503B

Team SPACE Models of Missile Affected: LGM-30G Center: OO-ALC - Hill AFB, UT PE 0101213F

Description/Justification

The Minuteman (MM) III Guidance Replacement Program (GRP) replaces the flight computer, amplifier, missile guidance system control, and platform electronics. Operational and associated software will be re-hosted onto a new processor. The purpose of GRP is to ensure MM flight reliability and supportability through 2020. Support equipment and trainers will be replaced or modified to support the new guidance electronics. Total program quantity requirements include units for deployed missiles, flight tests, pipeline spares, and on-site/vault spares.

Full operational capability was declared in Feb 08. The program completes transition to sustainment in FY09.

Missile Breakdown: Active 652, Reserve 0, ANG 0, Total 652

Development Status

Complete

Projected Financial Plan

Trojected Financial Flan	PRIO	OR	FY	-08	FY	7-09	FY	7-10	FY	7-11	FY	-12
	<u>OTY</u>	COST										
RDT&E (3600)		543.300										
PROCUREMENT (3020)												
INSTALL KITS												
KITS NONRECUR												
EQUIPMENT	652	1779.969										
EQUIP NONREC												
CHANGE ORDERS		13.109										
DATA												
SIM/TRAINER												
SUPPORT-EQUIP		14.524										
OGC		10.648		1.885		1.176						
TOTAL COST (BP-2100)	£50	1010.250		1.005		1 176						
(Totals may not add due to rounding)	652	1818.250		1.885		1.176						

(Continued)

	FY	-13	FY	-14	FY	-15	TOC	COMP	TOT	AL
	OTY	COST	OTY	COST	<u>OTY</u>	COST	OTY	COST	OTY	COST
RDT&E (3600)										543.300
PROCUREMENT (3020)										
INSTALL KITS										
KITS NONRECUR										
EQUIPMENT									652	1779.969
EQUIP NONREC										
CHANGE ORDERS										13.109
DATA										
SIM/TRAINER										
SUPPORT-EQUIP										14.524
OGC										13.709
TOTAL COST (BP-2100)										
(Totals may not add due to rounding)									652	1821.311

Method of Implementation: ORG/INTERMEDIATE

Initial Lead Time: 30 Months

Follow-On Lead Time: 19 Months

Milestones

	FY-95	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01	FY-02	FY-03	FY-04	FY-05	FY-06	FY-07
Contract Date (Month/CY)		10/96	12/96	03/98	12/98	12/99	11/00	11/01	12/02	12/03	12/04	12/05	12/06
Delivery Date (Month/CY)		04/99	07/98	10/99	07/00	07/01	06/02	06/03	07/04	07/05	07/06	07/07	07/08

Exhibit P3A Congressional

Class P

Appropriation: Missile Procurement, Air Force

CLC: LGM-30

05/01/2009 MODIFICATION OF MISSILE FY 2010 PB

Modification Title and No: MM III PROPULSION REPLACEMENT PROGRAM MN-5053

Models of Missile Affected: LGM-30 Center: OO-ALC - Hill AFB, UT Team SPACE PE 0101213F

Description/Justification

The Propulsion Replacement Program (PRP) re-manufactures all solid-fuel stage motors, booster ordnance, and integrating hardware and software of Minuteman III (MM) fleet. The purpose of PRP is to ensure MM flight reliability and supportability through 2020. This modification is required to correct identified mission threatening degradations, sustain existing reliability, and support MM life extension efforts. Remanufacture began in FY00 to allow replacement of operational motors prior to age-out. PRP modification total program quantity requirements include deployed missiles, flight tests, failure spares, and analysis spares. Other government costs (OGC) include funding for depot labor performing pre- and post-contractor production efforts including tear-down and build-up of missile stage items (e.g. hardware, cabling, nozzles, etc.). Installation of assembled boosters is conducted by wing-level maintenance technicians as a part of field maintenance activities.

FY08 funds purchased the remaining 56 booster sets, for a total of 601.

FY09 funds support reassembly of remaining boosters and program close out activities. FY09 is the final year of funding for PRP.

Missile Breakdown: Active 601, Reserve 0, ANG 0, Total 601

Development Status

Complete

Projected Financial Pl

Projected Financial Plan												
	PRIC	OR	FY-0	08	FY	-09	FY	-10	FY	-11	FY	-12
	<u>OTY</u>	<u>COST</u>	<u>OTY</u>	COST	<u>OTY</u>	<u>COST</u>	\underline{OTY}	COST	\underline{OTY}	COST	<u>OTY</u>	COST
RDT&E (3600)		337.900										
PROCUREMENT (3020)												
INSTALL KITS												
KITS NONRECUR												
EQUIPMENT	545	1832.765	56	224.282								
EQUIP NONREC												
CHANGE ORDERS		27.507		4.500								
DATA												
SIM/TRAINER												
SUPPORT-EQUIP												
OGC		84.186		20.346		61.690						
TOTAL COST (BP-2100)												
(Totals may not add due to rounding)	545	1944.458	56	249.128		61.690						

Fact Sheet: LGM-30 MN-5053 MM III PROPULSION REPLACEMENT PROGRAM (Continued)

(Continued)

	FY	7-13	FY	-14	FY	-15	ТОС	COMP	TOT	AL
	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	OTY	COST
RDT&E (3600)										337.900
PROCUREMENT (3020)										
INSTALL KITS										
KITS NONRECUR										
EQUIPMENT									601	2057.047
EQUIP NONREC										
CHANGE ORDERS										32.007
DATA										
SIM/TRAINER										
SUPPORT-EQUIP										
OGC										166.222
TOTAL COST (BP-2100)										
(Totals may not add due to rounding)									601	2255.276

Method of Implementation: ORG/INTERMEDIATE

Initial Lead Time: 12 Months

Follow-On Lead Time: 12 Months

Milestones

	FY-95	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01	FY-02	FY-03	FY-04	FY-05	FY-06	FY-07	FY-08
Contract Date (Month/CY)						10/99	10/00	10/01	10/02	01/04	12/04	12/05	12/06	12/07
Delivery Date (Month/CY)						10/00	10/01	10/02	10/03	01/05	12/05	12/06	12/07	12/08

UNCLASSIFIED MODIFICATION OF MISSILE

05/01/2009 FY 2010 PB

Modification Title and No: ENVIRONMENTAL CONTROL SYSTEM MODIFICATION MN-5739

Models of Missile Affected: LGM-30 Center: OO-ALC - Hill AFB, UT

Exhibit P3A Congressional Appropriation: Missile Procurement, Air Force CLC: LGM-30 Class P

PE 0101213F Team SPACE

Description/Justification

The Minuteman III (MM) Environmental Control System (ECS) Replacement Program will modify the original environmental control equipment deployed in the 1960s. The aging and obsolete technology of the current ECS is adversely affecting weapon system availability and maintenance costs due to high failure rates, non-availability of replacement parts, lack of diagnostic capability, and related supportability problems. The program will modify and/or replace the existing ECS MM launch facilities, missile alert facilities, test equipment, and trainers to extend weapon system life to 2020.

FY10 funds will procure 62 operational kits that support the overall program schedule to deploy ECS at operational Minuteman launch facilities, operational launch control facilities, and associated training and test facilities.

In Dec 07, the program was directed to stop deployment until an ECP to eliminate a particular failure mode was approved and ready for fielding. The program was also directed to retofit previously deployed sites before restarting full deployment. In Aug 08, the program was again directed to stop deployment as a result of a fire in the launch facility. Deployments at launch facilities were delayed until safety modifications, unrelated to the ECS program, were implemented. Production continued as scheduled (499 kits total); however, deployments have been delayed. Costs associated with these delays result in current program funding sufficient to deploy only 413 of the 499 kits.

Missile Breakdown: Active 499, Reserve 0, ANG 0, Total 499

Development Status

Complete

Projected Financial Plan												
	PRIC	OR	FY-	08	FY-	09	FY-	10	FY	7-11	FY	-12
	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	OTY	COST	<u>OTY</u>	COST
RDT&E (3600)		37.044										
PROCUREMENT (3020)												
INSTALL KITS	197	20.230	[117]	10.998	[123]	12.423	[62]	7.068				
KITS NONRECUR												
EQUIPMENT	197	30.492	117	16.614	123	17.466	62	10.540				
EQUIP NONREC												
CHANGE ORDERS		5.842		9.125		5.465		5.987				
DATA		0.010		0.035		0.020		0.020				
SIM/TRAINER	6	4.189	[5]	3.465	[7]	2.260	[1]	0.739				
SUPPORT-EQUIP		0.500										
OGC		4.227		2.582		4.042		6.418				

Fact Sheet: LGM-30 MN-5739 ENVIRONMENTAL CONTROL SYSTEM MODIFICATION

Projected Financial Plan Continued

1 Tojecteu Financiai I	ian continued													
		PRIC	OR	FY-	08	FY-	09	FY-	10	FY	-11	FY	-12	
		\underline{OTY}	COST	\underline{OTY}	<u>COST</u>	<u>OTY</u>	<u>COST</u>	<u>OTY</u>	COST	\underline{OTY}	COST	<u>OTY</u>	COST	
INSTALLATION OF	HARDWARE													
FY-06	50 KITS	50	14.830											
FY-07	147 KITS	26	6.110	[41]	17.550	[60]	9.300	[20]	3.100					
FY-08	117 KITS					[64]	9.920	[53]	8.215					
FY-09	123 KITS					[0]	0.000	[57]	8.835					
FY-10	62 KITS							[0]	0.000					
TOTAL INSTA	LL	76	20.940	41	17.550	124	19.220	130	20.150					
TOTAL COST (Totals may not	(BP-2100) add due to rounding)	197	86.430	117	60.369	123	60.896	62	50.922					•
INSTALLATIC	N QTY	76		41		124		130						

UNCLASSIFIED

Fact Sheet: LGM-30 MN-5739 ENVIRONMENTAL CONTROL SYSTEM MODIFICATION (Continued)

(Continued)

	FY	-13	FY	-14	FY	-15	TO	COMP	TOT	AL
	<u>OTY</u>	<u>COST</u>								
RDT&E (3600)										37.044
PROCUREMENT (3020)										
INSTALL KITS									[499]	50.719
KITS NONRECUR										
EQUIPMENT									499	75.112
EQUIP NONREC										
CHANGE ORDERS										26.419
DATA										0.085
SIM/TRAINER									[19]	10.653
SUPPORT-EQUIP										0.500
OGC										17.269
INSTALLATION OF HARDWARE										
FY-06 50 KITS									[50]	14.830
FY-07 147 KITS									[147]	36.060
FY-08 117 KITS									[117]	18.135
FY-09 123 KITS									[57]	8.835
FY-10 62 KITS										
TOTAL INSTALL									371	77.860
TOTAL COST (BP-2100)									400	250 617
(Totals may not add due to rounding)									499	258.617
INSTALLATION QTY									371	

Method of Implementation: CONTRACT FIELD TEAM

Initial Lead Time: 7 Months

Follow-On Lead Time: 6 Months

Milestones

	FY-02	FY-03	FY-04	FY-05	FY-06	FY-07	FY-08	FY-09	FY-10
Contract Date (Month/CY)					02/06	12/06	12/07	12/08	12/09
Delivery Date (Month/CY)					09/06	06/07	06/08	06/09	06/10

Installation Schedule

	FY-	·02			FY.	<u>-03</u>			FY-	-04			FY	<u>-05</u>			FY.	<u>-06</u>			FY	<u>-07</u>			FY	<u>-08</u>			FY	<u>-09</u>	
Quarter 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	1	2	3	4
Input																			2	6	13	29	26	5	24	6	6	32	31	34	27
Output																			2	6	13	29	26	5	24	6	6	32	31	34	27

Quarter 1 2 3 4 Input 32 36 35 27 Output 32 36 35 27

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3 - 19 UNCLASSIFIED

05/01/2009 MODIFICATION OF MISSILE FY 2010 PB Modification Title and No: MM III TRAINERS BLOCK UPGRADE MN-5747

Team SPACE Models of Missile Affected: LGM-30G Center: PE 0101213F

Exhibit P3A Congressional

Class P

Appropriation: Missile Procurement, Air Force CLC: LGM-30

Description/Justification

This program incorporates over thirty separately validated modification efforts into one program to leverage the investment synergies and to ensure the weapon systems trainers accurately represent operationally configured systems. These changes will include hardware and software updates in order to extend the weapon system life to 2020. The MM missile training devices and equipment will be modified in the Missile Procedures Trainer (MPT), Software Development and Maintenance Environment (SDME) Test Unit, Missile Enhanced Procedures Trainer (MEP), Motor Generator Trainer (MGT), and Missile Maintenance Trainer (MMT) located at F.E. Warren, Malmstrom, Minot, and Vandenberg Air Force Bases.

FY 2008 funds completed installation activities.

Missile Breakdown: Active 34, Reserve 0, ANG 0, Total 34

Development Status

N/A

Projected Financial Plan

Frojected Financial Flan	PRIO	OR	FY-	-08	FY	7-09	FY	7-10	FY	7-11	FY	7-12
	OTY	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST
RDT&E (3600)												
PROCUREMENT (3020)												
INSTALL KITS	34	5.999										
KITS NONRECUR												
EQUIPMENT												
EQUIP NONREC												
CHANGE ORDERS												
DATA		0.936										
SIM/TRAINER												
SUPPORT-EQUIP												
OGC		0.472										
INSTALLATION OF HARDWARE												
FY-07 34 KITS			[34]	1.124								
TOTAL INSTALL			34	1.124								
TOTAL COST (BP-2100)	34	7.407		1.124								
(Totals may not add due to rounding)	34	7.407		1.124								
INSTALLATION QTY			34									

(Continued)

	FY <u>OTY</u>	7-13 <u>COST</u>	FY <u>OTY</u>	7-14 <u>COST</u>	FY <u>OTY</u>	Y-15 <u>COST</u>	TO (<u>OTY</u>	COMP COST	TOT. <u>OTY</u>	AL <u>COST</u>
RDT&E (3600)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>0001</u>	<u> </u>	<u>0001</u>	<u> </u>	<u>0001</u>
PROCUREMENT (3020) INSTALL KITS KITS NONRECUR EQUIPMENT EQUIP NONREC									34	5.999
CHANGE ORDERS DATA SIM/TRAINER SUPPORT-EQUIP										0.936
OGC										0.472
INSTALLATION OF HARDWARE FY-07 34 KITS									[34]	1.124
TOTAL INSTALL									34	1.124
TOTAL COST (BP-2100) (Totals may not add due to rounding)									34	8.531
INSTALLATION QTY									34	

Method of Implementation: CONTRACT FIELD TEAM

Initial Lead Time: 12 Months Follow-On Lead Time: 0 Months

Milestones

FY-07 FY-06 02/07 Contract Date (Month/CY) Delivery Date (Month/CY) 02/08

Installation Schedule

<u>FY-06</u> <u>FY-07</u> <u>FY-08</u> <u>FY-09</u> 2 3 4 1 2 3 4 1 2 3 4 Quarter 1 14 12 8 Input Output 14 12 8

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UNCLASSIFIED MODIFICATION OF MISSILE

05/01/2009 FY 2010 PB Modification Title and No: PSRE LIFE EXTENSION PROGRAM MN-5768 Exhibit P3A Congressional Appropriation: Missile Procurement, Air Force CLC: LGM-30 Class P

Center: OO-ALC - Hill AFB, UT PE 0101213F Team SPACE

Description/Justification

Models of Missile Affected: LGM-30G

The Propulsion System Rocket Engine (PSRE) program refurbishes/replaces Minuteman III (MM) post boost propulsion system components produced in the 1970s. Deficiencies identified in several components may cause system failure/loss of performance and, in turn, cause potential mission failure. The program is required due to non-availability of replacement parts, material and component obsolescence and environmentally restricted chemicals and solvents. This program corrects age related degradation; reduces life cycle costs, and supports MM availability/reliability to 2020. Program quantity requirements include units for deployed missiles, flight tests, trainers/test facilities, aging and surveillance, pipeline spares, and on-site/vault spares. Other government costs (OGC) include funding for depot labor and parts performing pre- and post-contractor production efforts including tear-down and build-up of PSRE units, and associated testing and transportation.

FY10 funds will procure 96 kits to support Minuteman life extension efforts. Installation will be conducted by wing-level maintenance technicians.

Missile Breakdown: Active 574, Reserve 0, ANG 0, Total 574

Development Status

Complete

Projected Financial Plan

Projected Financial Plan	PRIC)R	FY-0	08	FY-	09	FY-	10	FY	-11	FY	-12
	OTY	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	OTY	COST	<u>OTY</u>	COST	OTY	COST
RDT&E (3600)		69.057										
PROCUREMENT (3020)												
INSTALL KITS												
KITS NONRECUR												
EQUIPMENT	243	44.710	96	14.280	96	14.430	96	14.780				
EQUIP NONREC												
CHANGE ORDERS		2.122		0.270		0.490		0.543				
DATA												
SIM/TRAINER												
SUPPORT-EQUIP												
OTHER												
SHIPPING FIXTURES				1.270		1.080						
OGC		22.894		13.930		11.670		10.907				
TOTAL COST (BP-2100)	2.12	50 73 5	0.4	20.770	0.5	25.50	0.5	2 - 220				
(Totals may not add due to rounding)	243	69.726	96	29.750	96	27.670	96	26.230				

(Continued)

	FY	r-13	FY	-14	FY	-15	тос	COMP	TOT	AL
	OTY	COST	OTY	COST	<u>OTY</u>	COST	OTY	COST	<u>OTY</u>	COST
RDT&E (3600)										69.057
PROCUREMENT (3020)										
INSTALL KITS										
KITS NONRECUR										
EQUIPMENT									531	88.200
EQUIP NONREC										
CHANGE ORDERS										3.425
DATA										
SIM/TRAINER										
SUPPORT-EQUIP										
OTHER										
SHIPPING FIXTURES										2.350
OGC										59.401
TOTAL COST (BP-2100)										
(Totals may not add due to rounding)									531	153.376

Method of Implementation: ORG/INTERMEDIATE

Initial Lead Time: 14 Months

Follow-On Lead Time: 10 Months

Milestones

	FY-99	FY-00	FY-01	FY-02	FY-03	FY-04	FY-05	FY-06	FY-07	FY-08	FY-09	FY-10
Contract Date (Month/CY)						02/04	11/04	11/05	11/06	11/07	11/08	11/09
Delivery Date (Month/CY)						04/05	09/05	09/06	09/07	09/08	09/09	09/10

Center: OO-ALC - Hill AFB, UT

05/01/2009 FY 2010 PB

Modification Title and No: SAFETY ENHANCED REENTRY VEHICLE MN-5911

Exhibit P3A Congressional
Appropriation: Missile Procurement, Air Force
CLC: LGM-30 Class P

PE 0101213F

Team SPACE

Description/Justification

Models of Missile Affected: LGM-30G

The Safety Enhanced Reentry Vehicle (SERV) program modifies existing Minuteman III (MM) Reentry System (RS) hardware, software, support equipment, and trainers needed to deploy the Peacekeeper Mk21 reentry vehicle (RV) while maintaining all Mk12A RV capabilities and preventing single point failures. Mk21 RVs are available due to the Peacekeeper weapon system deactivation. The Mk21 RV includes all the warhead safety features as recommended in the Dec 1990 Drell Commission report. The program is required to meet Air Force Space Command's operational requirements and United States Strategic Command's war fighting requirements. This modification is required to extend the life of the weapon system and to abide by the Department of Energy (DOE)-directed Mk12 RV retirement timelines. Program quantity requirements include units for deployed missiles, flight tests, and on-site/vault spares. Installation will be conducted by wing-level maintenance technicians.

The first SERV modification of an operational ICBM was accomplished in October 2006. Initial Operational Capability was declared in January 2007

FY09 funds procured 111 RS install kits and associated support equipment. FY09 was the final year of funding for the SERV program.

Missile Breakdown: Active 570, Reserve 0, ANG 0, Total 570

Development Status

Developmental efforts funded in PE 0604851F, ICBM-EMD, Project 4371.

Projected Financial Plan

Projected Financial Plan												
	PRIC	OR	FY-	08	FY-	09	FY	-10	FY	-11	FY	-12
	<u>OTY</u>	<u>COST</u>	QTY	<u>COST</u>	QTY	COST	QTY	COST	QTY	COST	OTY	COST
RDT&E (3600)		231.183										
PROCUREMENT (3020)												
INSTALL KITS												
KITS NONRECUR												
EQUIPMENT	339	132.638	120	46.800	111	43.954						
EQUIP NONREC												
CHANGE ORDERS		4.794		2.704		2.368						
DATA												
SIM/TRAINER												
SUPPORT-EQUIP		53.832		13.000								
OGC		4.301		2.378		1.978						
SHIPPING FIXTURES		8.600										
TOTAL COST (BP-2100)	220	204.165	120	64.002	111	10.200						
(Totals may not add due to rounding)	339	204.165	120	64.882	111	48.300						

(Continued)

	FY	7-13	FY	7-14	FY	-15	ТО	COMP	TOTA	AL
	OTY	COST	OTY	COST	OTY	COST	<u>OTY</u>	COST	OTY	COST
RDT&E (3600)										231.183
PROCUREMENT (3020)										
INSTALL KITS										
KITS NONRECUR										
EQUIPMENT									570	223.392
EQUIP NONREC										
CHANGE ORDERS										9.866
DATA										
SIM/TRAINER										
SUPPORT-EQUIP										66.832
OGC										8.657
SHIPPING FIXTURES										8.600
TOTAL COST (BP-2100)									570	217.247
(Totals may not add due to rounding)									570	317.347

Method of Implementation: ORG/INTERMEDIATE

Initial Lead Time: 24 Months

Follow-On Lead Time: 18 Months

Milestones

	FY-01	FY-02	FY-03	FY-04	FY-05	FY-06	FY-07	FY-08	FY-09
Contract Date (Month/CY)				02/04	01/05	02/06	01/07	01/08	01/09
Delivery Date (Month/CY)				02/06	07/06	08/07	07/08	07/09	07/10

UNCLASSIFIED MODIFICATION OF MISSILE

05/01/2009 FY 2010 PB

Modification Title and No: MINUTEMAN SURGE PROTECTION MN-5912

Exhibit P3A Congressional Appropriation: Missile Procurement, Air Force CLC: LGM-30 Class P

Center: OO-ALC - Hill AFB, UT PE 0101213F Team SPACE

Description/Justification

Models of Missile Affected: LGM-30

The Minuteman Surge Protection program modifies motor generator over-voltage output, direct current motor protection and circuit breakers for all Launch Facility (LF) and Missile Alert Facility (MAF) motor-generators for the Minuteman III weapon system. Over voltage protection is required on all LF/MAF motor generators to prevent downstream electrical equipment and possible fire in the weapon system. This program modification implements Air Force Safety Board recommendations.

FY08 was the final year of funding for the Minuteman Surge Protection program.

Missile Breakdown: Active 600, Reserve 0, ANG 0, Total 600

Development Status

Complete

Projected Financial Plan

110jected Financiai Fian	PRIC	OR	FY-	08	FY	7-09	FY	-10	FY	-11	FY	-12
	<u>OTY</u>	<u>COST</u>										
RDT&E (3600)		1.400										
PROCUREMENT (3020)												
INSTALL KITS												
KITS NONRECUR												
EQUIPMENT	509	15.809	91	2.486								
EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT-EQUIP												
TOTAL COST (BP-2100)	500	15.000	0.1	2.406								
(Totals may not add due to rounding)	509	15.809	91	2.486								

(Continued)

	FY	'-13	FY	7-14	FY	7-15	TOO	COMP	TOT	AL
DDT8 F (2600)	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST
RDT&E (3600)										1.400
PROCUREMENT (3020)										
INSTALL KITS										
KITS NONRECUR										
EQUIPMENT									600	18.295
EQUIP NONREC										
CHANGE ORDERS										
DATA										
SIM/TRAINER										
SUPPORT-EQUIP										
TOTAL COST (BP-2100)									-0.0	
(Totals may not add due to rounding)									600	18.295

Method of Implementation: ORG/INTERMEDIATE
Initial Lead Time: 19 Months

Initial Lead Time: 19 Months Follow-On Lead Time: 14 Months

Milestones

	FY-03	FY-04	FY-05	FY-06	FY-07	FY-08
Contract Date (Month/CY)		04/04	12/04	12/05	12/06	12/07
Delivery Date (Month/CY)		11/05	02/06	02/07	02/08	02/09

UNCLASSIFIED MODIFICATION OF MISSILE

Exhibit P3A Congressional

Class P

Appropriation: Missile Procurement, Air Force

CLC: LGM-30

05/01/2009 FY 2010 PB

Modification Title and No: ICBM SECURITY MODERNIZATION PROGRAM MN-5914

Models of Missile Affected: LGM-30 Center: PE 0101213F Team SPACE

Description/Justification

National Security Presidential Directive (NSPD) 28, dated 24 Jun 03, directs modernization of Intercontinental Ballistic Missile (ICBM) Launch Facilities' (LF) security systems to mitigate threats identified in the ICBM Security Review Document and compliance with Nuclear Weapon Security Manual (DoD C-5210.41-M). Implementing these advanced delay/denial features, updated detection/assessment technology, and data transmission systems from the LF to the responsible Missile Alert Facility (MAF) will counter emerging threat technologies and methods. The ICBM Security Modernization program is comprised of three primary activities: expanding the LF's concrete headworks, bolstering the barriers that will delay an intruder's ability to enter the LF (completed at 450 LFs); Remote Visual Assessment (RVA) allowing security forces to remotely evaluate the situation and respond appropriately; and the LF Fast Rising Secondary Door (a.k.a. Turbo B-Plug) securing a penetrated LF faster in order to delay or deny intruder entry.

FY10 funds procures the final 80 Fast Rising Secondary Doors. Installation will be conducted by wing-level maintenance technicians. Additionally, FY10 funds procure RVA kits to support installation at 113 LFs, and associated MAFs.

Missile Breakdown: Active 1335, Reserve 0, ANG 0, Total 1335

Development Status

Complete.

Projected Financial Plan

<u>Projected Financial Plan</u>												
	PRIC	OR	FY-	08	FY-	09	FY-	10	FY	-11	FY-	-12
	<u>OTY</u>	COST	OTY	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	OTY	COST	<u>OTY</u>	COST
RDT&E (3600)		34.535										
PROCUREMENT (3020)												
INSTALL KITS												
KITS NONRECUR												
EQUIPMENT	287	140.774	204	93.324	247	87.849	193	72.445				
EQUIP NONREC												
CHANGE ORDERS		4.720		2.766		3.602		3.380				
DATA												
SIM/TRAINER												
SUPPORT-EQUIP												
OGC		14.012		2.816		2.234		1.880				
TOTAL COST (BP-2100)	207	450 505	20.4	00.005	2.45	00.505	400					
(Totals may not add due to rounding)	287	159.506	204	98.906	247	93.685	193	77.705				

(Continued)

	FY	7-13	FY	7-14	FY	7-15	тос	COMP	TOT	AL
RDT&E (3600)	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST 34.535
PROCUREMENT (3020) INSTALL KITS										
KITS NONRECUR									021	204 202
EQUIPMENT EQUIP NONREC									931	394.392
CHANGE ORDERS DATA										14.468
SIM/TRAINER										
SUPPORT-EQUIP OGC										20.942
TOTAL COST (BP-2100) (Totals may not add due to rounding)									931	429.802

Method of Implementation: ORG/INTERMEDIATE

Initial Lead Time: 6 Months Follow-On Lead Time: 6 Months

Milestones

	FY-03	FY-04	FY-05	FY-06	FY-07	FY-08	FY-09	FY-10
Contract Date (Month/CY)		02/04	01/05	01/06	01/07	01/08	01/09	01/10
Delivery Date (Month/CY)		08/04	07/05	07/06	07/07	07/08	07/09	07/10

Exhibit P3A Congressional

Class P

Appropriation: Missile Procurement, Air Force

CLC: LGM-30

05/01/2009 MODIFICATION OF MISSILE FY 2010 PB

Modification Title and No: Mintueman III Solid Rocket Motor Warm Line Program MN-5917

Team SPACE Models of Missile Affected: LGM-30 Center: Kirtland, NM PE 0101213F

Description/Justification

The Minuteman III Solid Rocket Motor (SRM) Warm Line Program is a low-rate production line for Minuteman III solid rocket motors. The purpose of the SRMWarm Line Program is to maintain a sufficient industrial capability for solid rocket motors in order to sustain the Minuteman III weapon system through 2030 as directed by Congress. It will maintain a production capability for the manufacture of solid rocket motors as well as maintain a systems engineering assessment capability and will utilize an independent verification of production process. It will also maintain design-unique material availability, sub-tier material supplier viability, touch labor currency and design engineering personnel continuity. A delivered unit is a motor set and consists of Stage 1, Stage 2, and Stage 3 motors. Other Government Costs include funding for depot costs, motor transportation, static fire testing, and Government travel.

Missile Breakdown: Active 17, Reserve, ANG, Total 17

Development Status

INSTALLATION QTY

N/A

Projected Financial Plan												
	P	RIOR	FY	7-08	FY	7-09	FY	-10	FY	-11	FY	-12
	<u>OTY</u>	<u>COST</u>	\underline{OTY}	<u>COST</u>	\underline{OTY}	COST	\underline{OTY}	<u>COST</u>	<u>OTY</u>	<u>COST</u>	\underline{OTY}	<u>COST</u>
RDT&E (3600)												
PROCUREMENT (3020)												
INSTALL KITS												
KITS NONRECUR												
EQUIPMENT							1	37.329				
EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT-EQUIP												
OGC								5.671				
INSTALLATION OF HARDWARE												
FY-10 1 KITS												
TOTAL INSTALL												
TOTAL COST (BP-2100)												
(Totals may not add due to round	ing)						1	43.000				

Fact Sheet: LGM-30 MN-5917 Mintueman III Solid Rocket Motor Warm Line Program (Continued)

(Continued)

		FY	-13	FY	-14	FY	-15	TOC	COMP	TOT	AL
RDT&E (3600)		<u>OTY</u>	COST								
PROCUREMENT (3020) INSTALL KITS KITS NONRECUR EQUIPMENT EQUIP NONREC CHANGE ORDERS DATA										1	37.329
SIM/TRAINER SUPPORT-EQUIP OGC INSTALLATION OF HARD FY-10 TOTAL INSTALL	WARE 1 KITS										5.671
TOTAL COST (BP-210 (Totals may not add du INSTALLATION QTY	e to rounding)									1	43.000

Method of Implementation: COMBINATION

Initial Lead Time: 6 Months Follow-On Lead Time: 4 Months

Milestones

 FY-07
 FY-08
 FY-09
 FY-10

 Contract Date (Month/CY)
 501/10
 01/10

 Delivery Date (Month/CY)
 607/10

Installation Schedule

UNCLASSIFIED MODIFICATION OF MISSILE

Center: OO-ALC - Hill AFB, UT

05/01/2009 FY 2010 PB

Modification Title and No: LOW COST MODIFICATIONS MN-99999X

Exhibit P3A Congressional Appropriation: Missile Procurement, Air Force CLC: LGM-30 Class P

PE 0101213F Team SPACE

Description/Justification

Models of Missile Affected: LGM-30G

These modifications are low cost but necessary to meet mission and logistics support requirements. Example of items funded in this mod line include Joint Test Assemblies (JTAs) used during Force Development Evaluation (FDE) launches to verify system reliability and performance. FY08 miscellaneous modifications to the system included the Weapon System Processor Conversion, the NS50 Leak & Fill Station, and 76 battery chargers at launch facilities. The battery chargers were a safety modification.

Missile Breakdown: Active 0, Reserve 0, ANG 0, Total 0

Development Status

N/A

Projected Financial Plan												
	PR	IOR	FY	7-08	FY	7-09	FY	7-10	FY	7-11	FY	7-12
	OTY	OTY COST		COST	OTY	COST	<u>OTY</u>	COST	OTY	COST	OTY	<u>COST</u>
RDT&E (3600)												
PROCUREMENT (3020)												
INSTALL KITS												
KITS NONRECUR												
EQUIPMENT												
EQUIP NONREC												
CHANGE ORDERS												
DATA												
SIM/TRAINER												
SUPPORT-EQUIP												
MISC		12.012		3.878		2.062		1.627				
TOTAL COST (BP-2100)												
(Totals may not add due to rounding)		12.012		3.878		2.062		1.627				

Fact Sheet: LGM-30 MN-99999X LOW COST MODIFICATIONS (Continued)

(Continued)

RDT&E (3600)

PROCUREMENT (3020)

INSTALL KITS

KITS NONRECUR

EQUIPMENT

EQUIP NONREC

CHANGE ORDERS

DATA

SIM/TRAINER

SUPPORT-EQUIP

MISC

TOTAL COST (BP-2100)

(Totals may not add due to rounding)

Method of Implementation: ORG/INTERMEDIATE

Initial Lead Time: 0 Months

Follow-On Lead Time: 0 Months

Milestones

FY-00 FY-01 FY-02 FY-03 FY-04 FY-05 FY-06 FY-07 FY-08 FY-09 FY-10 FY-11 FY-12 FY-13 FY-14

19.579

Contract Date (Month/CY)

Delivery Date (Month/CY)

Contract Date (Month/CY)

Delivery Date (Month/CY)

	BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)											
APPROPRIATION/E		:/MISSILE Modificat		P-1 ITEM NOMENO	LATURE: AGM-65							
	MISSILE PROCUREMENT-AIR FORCE/MISSILE Modifications 2008 2009 20				2012	2013	2014	2015				
COST (In Mil)	\$0.251	\$0.255	\$0.258									

This line item funds modifications to the AGM-65D/G Maverick missiles. The AGM-65D/G Maverick are rocket propelled, air-to-surface, precision guided tactical missiles with a 'stand off' launch and leave capability. The major modification for FY10 is the AGM-65 B to H Conversion of the Maverick. Modifications are budgeted and programmed below.

CLASS P	MOD NR 650002	MODIFICATION TITLE AGM-65 B TO H UPGRADE	EY-08 0.3	<u>EY-09</u> 0.3	EY-10 0.3	EY-11	EY-12	EY-13	EY-14	EY-15	COST TO GO	TOTAL PROG 1.0
TOTAL FO	OR CLASS P		0.3	0.3	0.3							1.0
TOTAL FO	R WEAPON S	SYSTEM AGM-65	0.3	0.3	0.3							1.0

Totals may not add due to rounding.

TOTAL PROG includes Prior Year and Cost To Go dollars.			
I	P-1 SHOPP LIST	PAGE NO.	
	ITEM NO. 10	1	

UNCLASSIFIED MODIFICATION OF MISSILE

05/01/2009 FY 2010 PB

Modification Title and No: AGM-65 B TO H UPGRADES MN-650002

CLC: AGM-65 Class P Team POWER

Exhibit P3A Congressional

Appropriation: Missile Procurement, Air Force

PE 0207313F

Models of Missile Affected: AGM-65B Maverick Center: OO-ALC - Hill AFB, UT

Description/Justification

The AGM-65H Maverick program is part of a restructuring of the Reliability & Maintainability 2000 Maverick Program which has already passed an AFOTEC QOT&E program. This program upgrades AGM-65B Mavericks to the AGM-65H missile with an improved electro-optical (TV) seeker. Conversions require circuit card assemblies provided by harvesting government assets. This program will fix deficiencies identified in the QOT&E effort. Repairing these deficiencies will improve the reliability and effectiveness of the missile. NOTE - The current conversions are being funded by a Foreign Military Exchange credit program with Raytheon Missile Systems. Funds listed on the P3A are to cover minor conversion support (uploading/downloading missiles etc) to support the exchange program. Because of the nature of the exchange program, funding shown in this document will not accurately reflect the cost of the total procurement quantities.

Missile Breakdown: Active 1881, Reserve 0, ANG 0, Total 1881

Development Status

N/A.

Projected Financial Plan												
		IOR		7-08		-09		-10		-11		-12
RDT&E (3600)	<u>OTY</u>	COST OTY	COST									
PROCUREMENT (3020) INSTALL KITS KITS NONRECUR EQUIPMENT EQUIP NONREC CHANGE ORDERS DATA SIM/TRAINER												
SUPPORT-EQUIP CONTRACT SUPPORT INSTALLATION OF HARDWARE TOTAL INSTALL		0.245		0.251		0.255		0.258				
TOTAL COST (BP-2100) (Totals may not add due to rounding)		0.245		0.251		0.255		0.258				
INSTALLATION QTY	387											

Fact Sheet: AGM-65 MN-650002 AGM-65 B TO H UPGRADES (Continued)

(Continued)

FY-13 FY-14 FY-15 TO COMP TOTAL **OTY COST OTY COST OTY COST OTY COST OTY COST** RDT&E (3600) PROCUREMENT (3020) INSTALL KITS KITS NONRECUR **EQUIPMENT EQUIP NONREC** CHANGE ORDERS DATA SIM/TRAINER SUPPORT-EQUIP CONTRACT SUPPORT 1.009 INSTALLATION OF HARDWARE TOTAL INSTALL TOTAL COST (BP-2100) 1.009 (Totals may not add due to rounding)

Method of Implementation: CONTRACTOR FACILITY

Initial Lead Time: 18 Months Follow-On Lead Time: 18 Months

Milestones

FY-06 FY-07 FY-08 FY-09 FY-10 FY-11 FY-12 FY-13 FY-14 FY-15 FY-16 FY-17 FY-18 FY-19 FY-20 Contract Date (Month/CY)

742

Delivery Date (Month/CY)

Contract Date (Month/CY)

INSTALLATION QTY

Delivery Date (Month/CY)

Installation Schedule

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	BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)											
APPROPRIATION/E		:/MISSILE Modificat		P-1 ITEM NOMENC	LATURE: AGM-88							
	2008	2009	2010	2011	2012	2013	2014	2015				
COST (In Mil)	\$0.000	\$0.000	\$30.280									

This line item funds modifications of the AGM-88, High Speed Anti-Radiation Missile (HARM). The AGM-88C-1 HARM is designed to target and destroy threat radar installations and transmitters. The primary modification budgeted for the AGM-88 in FY10 is the AGM-88 HARM Destruction of Enemy Air Defenses (DEAD). The modifications are listed below.

CLASS P	MOD NR _2984	MODIFICATION TITLE HARM Control Section Modifi	EY-08	FY-09	<u>FY-10</u> 30.3	FY-11	FY-12	EY-13	EY-14	EY-15	COST TO GO	TOTAL PROG 30.3
TOTAL FO	R CLASS P		0.0	0.0	30.3							30.3
TOTAL FO	R WEAPON S	YSTEM AGM-88	0.0	0.0	30.3	,						30.3

Totals may not add due to rounding.

TOTAL PROG includes Prior Year and Cost To Go dollars.			
	P-1 SHOPP LIST	PAGE NO.	
	ITEM NO. 11	1	

Exhibit P3A Congressional

Class P

Appropriation: Missile Procurement, Air Force

CLC: AGM-88

05/01/2009 MODIFICATION OF MISSILE FY 2010 PB

Team INFO Models of Missile Affected: AGM-88C Center: AAC Eglin AFB PE 0207162F

Description/Justification

The AGM-88C-1 High Speed Anti-Radiation Missile (HARM) program is supported by long range planning objectives identified in Defense Planning Guidance (DPG) and the HQ ACC Air Superiority Mission Area Plan. Defense planning guidance requires fighter aircraft to accomplish the conventional warfare strategies of attaining air superiority and supporting surface operations. To execute these strategies, Combat Air Forces (CAF) must be able to conduct air operations around-the-clock under various weather conditions against numerous enemy ground threats employing a full spectrum of air defense systems to include countermeasures. The AGM-88C-1 HARM is designed to target and destroy threat radar installations and transmitters. The effectiveness of AGM-88C-1 can be significantly improved by modifying the missile control section to provide precision navigation capability. This modification will include addition of a Global Positioning System (GPS) receiver and Inertial Measurement Unit (IMU), comprised of a high-precision gyroscope, to replace existing navigation hardware. The modification also includes a new control section microprocessor with associated software to merge targeting solutions from navigation and seeker systems. The F-16CJ aircraft is an essential component of successful air superiority operations. An F-16CJ armed with an AGM-88 and modified missile control section will have an improved capability to engage an expanded set of enemy Integrated Air Defense Systems (IADS) targets compared to conventional HARMs. This AGM-88 control section modification will increase probability of hit (POH) against systems using counter-HARM techniques, provide high speed point-to-point capability, and reduce the potential for collateral damage and fratricide. Current program funding procures approximately 212 control section modifications (CSM) in FY10. Total program is expected to be approximately 500. This is a New Start Modification.

Missile Breakdown: Active 500, Reserve 0, ANG 0, Total 500

Modification Title and No: HARM Control Section Modification MN- 2984

Development Status

Development of the HARM DEAD Attack Module (HDAM) modification to the HARM Control Section was accomplished through a joint Air Force-contractor research and development effort. Flight-worthy assets were delivered and integrated into the F-16 M4+ OFP Flight Test Program in mid-2005. Full capability was demonstrated with three missile launches in 2006. Additionally, another contractor has developed an upgrade to the HARM control section for use with the Navy's AARGM program, which may be adaptable for use on Air Force missiles. After completing market research, the program office briefed SAF/AQ in Mar 09 and proposed a competitive acquisition approach. This recommendation was approved by OSD (AT&L). Plan is to issue a Request For Proposal after Acquisition Strategy Panel approval.

Projected Financial Plan												
	PR	IOR	FY	7-08	FY	7-09	FY	-10	FY	7-11	FY	-12
	\underline{OTY}	COST	<u>QTY</u>	COST	\underline{OTY}	COST	\underline{OTY}	<u>COST</u>	<u>QTY</u>	<u>COST</u>	\underline{OTY}	<u>COST</u>
RDT&E (3600)												
PROCUREMENT (3020)												
INSTALL KITS												
KITS NONRECUR							212	13.320				
EQUIPMENT												
EQUIP NONREC												
CHANGE ORDERS								0.410				
DATA												
SIM/TRAINER												
SUPPORT-EQUIP												
TOOLING								15.164				
INITIAL SPARES								0.118				
INSTALL												
FLT TEST												
PMA								1.268				

Fact Sheet: AGM-88 MN-_2984 HARM Control Section Modification (Continued)

Projected Financial Plan												
	PR	IOR	FY	-08	FY	-09	FY	-10	FY	7-11	FY	-12
	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST	<u>OTY</u>	COST
INSTALLATION OF HARDWARE												
FY-10 212 KITS												
TOTAL INSTALL												
TOTAL COST (BP-2100)							212	30.280			,	
(Totals may not add due to rounding)							212	30.260				

INSTALLATION QTY

Fact Sheet: AGM-88 MN-_2984 HARM Control Section Modification (Continued)

(Continued)

	FY	-13	FY	-14	FY	7-15	тос	COMP	TOTAL	
RDT&E (3600)	<u>OTY</u>	COST								
PROCUREMENT (3020)										
INSTALL KITS										
KITS NONRECUR									212	13.320
EQUIPMENT										
EQUIP NONREC										
CHANGE ORDERS										0.410
DATA										
SIM/TRAINER										
SUPPORT-EQUIP										
TOOLING										15.164
INITIAL SPARES										0.118
INSTALL										
FLT TEST PMA										1.268
INSTALLATION OF HARDWARE										1.208
FY-10 212 KITS										
TOTAL INSTALL										
TOTAL INSTALL										
TOTAL COST (BP-2100)										
(Totals may not add due to rounding)									212	30.280
INSTALLATION QTY									212	

Method of Implementation: CONTRACTOR FACILITY

Initial Lead Time: 18 Months

Follow-On Lead Time: 18 Months

Milestones

 FY-07
 FY-08
 FY-09
 FY-10

 Contract Date (Month/CY)
 12/09

 Delivery Date (Month/CY)
 06/11

Installation Schedule

 FY-07
 FY-08
 FY-09
 FY-10
 FY-11
 FY-12

 Quarter 1 2 3 4 1

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3 - 41 UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)											
APPROPRIATION/E	BUDGET ACTIVITY EMENT-AIR FORCE	/MISSILE Modificat		P-1 ITEM NOMENC							
	2008	2009	2010	2011	2012	2013	2014	2015			
COST (In Mil)	\$10.043	\$10.120	\$0.000								

This line item funds modifications of the AGM-86B, Air Launched Cruise Missile, for conversion to the AGM-86C, Conventional Air Launched Cruise Missile (CALCM). The AGM-86C is an accurate long range cruise missile optimized for an air-to-surface conventional role. This weapon system provides a near-term capability to attack high value point targets from outside theater defenses. The Service Life Extenstion is the primary modification budgeted for the AGM-86 in FY09..

CLASS P	MOD NR _0468 860001	MODIFICATION TITLE LOW COST MODIFICATION AGM-86B SERVICE LIFE EX	EY-08 0.1 9.9	EY-09	EY-10	EY-11	EY-12	EY-13	EY-14	EY-15	COST TO GO	TOTAL PROG 0.8 82.1
TOTAL FO	R CLASS P	_	10.0	10.1	0.0							82.9
TOTAL FO	R WEAPON S	SYSTEM AGM-86	10.0	10.1	0.0							82.9

Totals may not add due to rounding.

TOTAL PROG includes Prior Year and Cost To Go dollars.											
	P-1 SHOPP LIST	PAGE NO.									
	ITEM NO. 12	1									

UNCLASSIFIED MODIFICATION OF MISSILE

05/01/2009 FY 2010 PB Modification Title and No: LOW COST MODIFICATIONS MN-_0468

Exhibit P3A Congressional Appropriation: Missile Procurement, Air Force CLC: AGM-86 Class P

PE 0101122F

Team SPACE

Center: OC-ALC - Tinker AFB Okla City, OK

Description/Justification

Models of Missile Affected: AGM-86B

The AGM-86B, Air Launched Cruise Missile (ALCM), is a subsonic, air-to-surface strategic nuclear missile, operational since 1982. Armed with a W-80 warhead, it is designed to evade air and ground-based defenses in order to strike targets at any location within any enemy's territory. The ALCM is designed for B-52H internal and external carriage. There are currently 816 ALCMs in the active inventory (157 in attrition reserve) but only 34 test instrumentation doors are being purchased that may require interface changes. The W-80 Life Extension Program (LEP) replaces warhead components to extend its service life. The National Nuclear Security Administration (NNSA) is responsible for most of the refurbishment costs associated with the warhead. The Air Force is responsible for funding W-80 LEP integration onto the ALCM. Integration includes evaluation of the Initial Concept Design (ICD), interface change evaluation, missile testing, and logistics requirements in order to support a First Production Unit (FPU) of 2009. The known logistic procurement costs include CALCM/ALCM Test Instrumentation Kit (CATIK) cable and hoist beam modifications and technical data.

Missile Breakdown: Active 34, Reserve 0, ANG 0, Total 34

Development Status

Development is in the Initial Concept Design phase and interface change requests are being evaluated. Support for test planning and Project Officers Group meetings are required.

Projected Financial Plan

Frojected Financial Flan	PRI	OR	FY	7-08	FY	7-09	FY	-10	FY	-11	FY	T-12
	<u>OTY</u>	<u>COST</u>										
RDT&E (3600)												
PROCUREMENT (3020)												
INSTALL KITS												
KITS NONRECUR												
EQUIPMENT	34	0.236										
EQUIP NONREC												
CHANGE ORDERS												
DATA				0.100								
SIM/TRAINER												
SUPPORT-EQUIP		0.500										
TOTAL COST (BP-2100)	2.4	0.726		0.100								
(Totals may not add due to rounding)	34	0.736		0.100								

Fact Sheet: AGM-86 MN-_0468 LOW COST MODIFICATIONS (Continued)

(Continued)

	FY	FY-13		FY-14		7-15	TOC	COMP	TOT	AL
	OTY COST		<u>OTY</u>	COST	OTY COST		OTY	COST	OTY	COST
RDT&E (3600)										
PROCUREMENT (3020)										
INSTALL KITS										
KITS NONRECUR										
EQUIPMENT									34	0.236
EQUIP NONREC										
CHANGE ORDERS										
DATA										0.100
SIM/TRAINER										
SUPPORT-EQUIP										0.500
TOTAL COST (BP-2100)										
(Totals may not add due to rounding)									34	0.836

Method of Implementation:

Initial Lead Time: 8 Months

Follow-On Lead Time: 0 Months

Milestones

<u>FY-04 FY-05 FY-06 FY-07 FY-08 FY-09 FY-10 FY-11 FY-12 FY-13 FY-14 FY-15 FY-16 FY-17 FY-18</u>

Contract Date (Month/CY)

Delivery Date (Month/CY)

Contract Date (Month/CY)

Delivery Date (Month/CY)

05/01/2009 FY 2010 PB

Modification Title and No: AGM-86B SERVICE LIFE EXTENSION PROGRAM MN-860001

Models of Missile Affected: AGM-86B Center: OC-ALC - Tinker AFB Okla City, OK PE 0101122F

CLC: AGM-86

Appropriation: Missile Procurement, Air Force

Team SPACE

Class P

Exhibit P3A Congressional

Description/Justification

AGM-86B, The Air Launched Cruise Missile (ALCM), is a subsonic, air-to-surface strategic nuclear missile, operational since 1982. Armed with a W-80 warhead, it is designed to evade air and ground-based defenses in order to strike targets at any location within any enemy's territory. The ALCM was designed for both B-52H internal and external carriage. A Service Life Extension Plan (SLEP) was developed to meet an AF Long Range Plan requirement to extend ALCM Service Life to FY30. This program reflects the procurement of the Conventional/Air Launched Cruise Missile (CALCM)/ALCM Test Instrumentation Kit (CATIK) payload doors required to support the ALCM fleet to FY30. Additionally, the SLEP program identifies components on the ALCM that may have aging and obsolecent issues before they become a fleet wide problem. Components that are currently identified include W1 cable, Warhead Arming Device (WAD), Electro-Mechanical Linear Actuator and the Air Cycle Machine. This items will be will be included in our ongoing SLEP initiatives.

Demilitarization- Per SECDEF direction a reduction in the ALCM fleet has been directed.

CATIK - CATIK payload doors, containing a range transponder and battery, are required to be replaced due lack of existing payload door assets. The new CATIK payload doors will interface with the current Joint Test Assembly (JTA) package and will provide an inventory of test assets for continued flight testing. The CATIK payload door is a critical component for determining Weapon System Reliability (WSR). Support equipment procured in FY01 is required for production and testing of CATIK EMD doors in FY04/05. Support equipment procured in FY03, FY04 and FY05 is required to support field units. Anticipated production quantity is 94 CATIK doors in three configurations.

W-80 LEP - The W-80 Life Extension Program (LEP) replaces warhead components to extend its service life. The National Nuclear Security Administration (NNSA) is responsible for most of the refurbishment costs associated with the warhead. The Air Force is responsible for funding W-80 LEP integration onto the ALCM. Integration includes evaluation of the Initial Concept Design (ICD), interface change evaluation, missile testing, and logistics requirements in order to support a First Production Unit (FPU) of 2009. The known logistic procurement costs include CALCM/ALCM Test Instrumentation Kit (CATIK) cable and hoist beam modifications and technical data. These costs are identified on the ALCM P3A "Low Cost Modifications MN-_0468".

Missile Breakdown: Active 86, Reserve 0, ANG 0, Total 86

Development Status

The ALCM SLEP program is a continuing effort to identify potential areas and recommend solutions before they can become fleet wide issues. Initial SLEP assessment required the development and acquisition of new flight test payload doors as well as replacement of associated Operational Test & Evaluation (OT&E) hardware and software. The CATIK payload door contains a Joint Test Assembly (JTA) package. Test door assets will be procured for the continued testing of the ALCM. The ALCM SLEP is currently in Phase III Life Cycle Cost Analysis. More recent SLEP assestments have identified ALCM components - W1 cable. Warhead Arming Device (WAD). Electro-Mechanical Linear Actuator and the Air Cycle Machine that will need to be addressed.

CATIK development contract awarded Jun 00; Preliminary Design Review (PDR) 2Q FY00; Critical Design Review (CDR) 3Q FY03; Integration/Qualification Testing 2Q FY04; Flight Testing completed in 1Q FY07; Production Contract Awarded 3Q FY05; Initial Production Deliveries 2Q FY07.

Projected Financial Plan												
	PRI	PRIOR		FY-08		Y-09 FY-1		-10 FY-1		7-11	-11 FY-12	
	<u>OTY</u>	COST	OTY	<u>COST</u>	OTY	COST	OTY	COST	<u>OTY</u>	COST	<u>OTY</u>	COST
RDT&E (3600)												
PROCUREMENT (3020)												
INSTALL KITS	74	37.998	6	4.226	6	4.481						
KITS NONRECUR		4.493										
EQUIPMENT												
EQUIP NONREC												

Page 12-4

Projected Financial Plan Continued

	PRI	OR	FY-08		FY	FY-09		FY-10		FY-11		7-12
	<u>OTY</u>	COST	QTY	COST	OTY	COST	<u>OTY</u>	COST	QTY	COST	<u>OTY</u>	COST
CHANGE ORDERS		1.569		0.482		0.318						
DATA		1.037		0.354		0.367						
SIM/TRAINER		1.524										
SUPPORT-EQUIP		9.001										
OGC		6.375		4.881		4.954						
TOTAL COST (BP-2100) (Totals may not add due to rounding)	74	61.997	6	9.943	6	10.120						

(Continued)

	FY-13		FY	7-14	FY-15		TO COMP		TOTA	AL
RDT&E (3600)	<u>OTY</u>	COST								
PROCUREMENT (3020)										
INSTALL KITS									86	46.705
KITS NONRECUR										4.493
EQUIPMENT										
EQUIP NONREC										
CHANGE ORDERS										2.369
DATA										1.758
SIM/TRAINER										1.524
SUPPORT-EQUIP										9.001
OGC										16.210
TOTAL COST (BP-2100)										
(Totals may not add due to rounding)									86	82.060

Method of Implementation: ORG/INTERMEDIATE

Initial Lead Time: 20 Months

Follow-On Lead Time: 16 Months

Milestones

	FY-00	FY-01	FY-02	FY-03	FY-04	FY-05	FY-06	FY-07	FY-08	FY-09
Contract Date (Month/CY)						05/05	02/06	02/07	02/08	02/09
Delivery Date (Month/CY)						01/07	06/07	06/08	06/09	06/10

FISCAL YEAR (FY) 2010 BUDGET ESTIMATES BUDGET ACTIVITY 04 – SPARES AND REPAIR PARTS MAY 2009

PAGE 4 – 0

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Exhibit P-40, Budget Item Jus	stification									Date: May 2	009	
Appropriation (Treasury) Code/CC/B/	A/BSA/Item Co	ontrol Number						P-1 Line Ite	m Nomenclat	ure		
Missile Procurement, Ai	ir Force, I	Budget Act		Missile	Initial/Re	eplenishn	nent Spar	es				
Program Element for Code B Item	s:	N/A			Other Relat	ed Program I	Elements:		N/A			
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A											
Total Proc Cost (\$ M)			44.186	21.121	70.185							135.492

Description

FY2008 funding totals include \$1.106M in supplemental funding.

Missile Initial Spares (Budget Program 26) and Replenishment Spares (Budget Program 25)

Program Description: MISSILE INITIAL SPARES (Budget Program 26). Missile Initial Spares are required to fill the initial spare parts pipeline or inventory for all new ballistic and non-ballistic missile systems, including modifications, support equipment, and other production categories. Initial spares include peculiar reparable and consumable components, assemblies, and subassemblies that must be available for issue at all levels of supply in time to support and maintain newly fielded end items.

Initial spares are funded in the two program segments described below.

Working Capital Fund (WCF) Spares. Since FY94 most spares are purchased using obligation authority in the WCF. When the spares are delivered, this central procurement account reimburses the WCF. Types of spares in this program segment are Readiness Spares Packages, New Acquisition Spares, Modification Spares, Support Equipment, Other Production, and Consumables.

Exempt Spares. This program segment finances spares that are not purchased through the WCF. The budget authority is a direct cite on the contract. Types of spares in this program segment are Contractor Logistics Support, Simulators/Trainers, Classified Equipment, and Munitions.

Program Description: MISSILE REPLENISHMENT SPARES (Budget Program 25). The Missile Replenishment Spares program funds all ballistic and non-ballistic missile replenishment spares. The replenishment and repair spare parts are needed to support and maintain ballistic and non-ballistic missile systems. Replenishment spares include such items as rocket motors, cables, telemetry packages, and electronic components.

This program has associated Research Development Test and Evaluation funding in PEs 11120F, 27161F, 11122F, and 27163F.

FY 2010 Program Justification

For FY10 LGM-30 Minuteman II/III Mods drive the largest requirement for initial spares. Likewise, for replenishment spares LGM-30 Minuteman II/III Mods drive the largest FY10 requirement, followed by AGM-86 Air Launced Cruise Missile, and AGM-88A Tactical AGM Missile replenishment spare requirements.

P-1 Shopping List Item No.

Budget Item Justification Exhibit P-40, page 1 of 1

				OITOL									
Exhibit P-5, Weapon System Cost Analy	/sis									Date:	May 2009)	
Appropriation (Treasury) Code/CC/BA/BSA/Item C	Control Number							P-1 Lin	e Item Nome	nclature			
Missile Procurement, Air Force,	Budget A	ctivity	04, Other	r Suppo	rt, Item	No. 16		Miss	ile Initial	/Replen	ıishmer	nt Spares	,
Manufacturer's Name/Plant City/State Location	n			Subline Ite	em								
Weapon System	Ident					Total	l Cost in Mi	illions of I	Oollars				
Cost Elements	Code		FY 2008			FY 2009			FY 2010		C	ost to Compl	ete
	ļ			Total			Total			Total			Total
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost
INITIAL SPARES (Budget Program 26)	A			16.035			3.877			10.826			
REPLEN SPARES (Budget Program 25)	A			28.151			17.244			59.359			
TOTAL PROGRAM				44.186			21.121			70.185			
Comments			•	•		•			•	•			

P-1 Shopping List Item No.

Weapon System Cost Analysis Exhibit P-5, page 1 of 1

Exhibit P-18A, Initial S	pare Funding Summary		Date: May	2009
Appropriation (Treasury) Co	de/CC/BA/BSA/Item Control Number		P-1 Line Item Nomenclature	
Missile Procureme	ent, Air Force, Budget Activity 04, Other Support, Iten	n No. 16	Missile Initial/Replenis	shment Spares
Initial Spare Funding Summa	Initial Spare Funding Summary			
P-1 LINE	END ITEM NOMENCLATURE	FY 2008	FY 2009	FY 2010
1	Tactical AIM Missile	1.528	1.231	1.576
2	Air Launched Cruise MSL	0.191	0.193	0.000
3	Advanced Medium Range Air-to-Air Missile (AMRAAM)	3.645	0.077	0.077
4	LGM-30 Minuteman II/III Mods	4.149	2.376	9.173
5	Min Essential Emergency Communication Network (MEECN)	6.522	0.000	0.000
	TOTAL INITIAL SPARES	16.035	3.877	10.826

Initial Spare Funding Summary Exhibit P-18A, page 1 of 4

Exhibit P-18A, Initial	Spare Funding		Date: May 2	2009
	ode/CC/BA/BSA/Item Control Number nent, Air Force, Budget Activity 04, Other Su	pport, Item No. 16	P-1 Line Item Nomenclature Missile Initial/Replenis	shment Spares
Initial Spare Funding	Initial Spare Funding			
P-1 LINE	END ITEM NOMENCLATURE	FY 2008	FY 2009	FY 2010
	WCF SPARES	4.176	0.417	0.080
	EXEMPT SPARES	11.859	3.460	10.74
	TOTAL INITIAL SPARES	16.035	3.877	10.82

Initial Spare Funding Exhibit P-18A, page 2 of 4

Exhibit P-18A	, Replenishment Spare Funding Sum	mary					Da	te: May 2009	
	easury) Code/CC/BA/BSA/Item Control Numbe		\4\b = - 0	ut Itaua Na	46		ine Item Nomencla		-1 0
	curement, Air Force, Budget A	etivity 04, C	tner Suppo	ort, item No.	16	IVIIS	sile Initial/Re	epienisnmei	nt Spares
Replenishment Spare Funding									
Summary	Replenishment Spare Funding Summary	<u>7</u>							
P-1 LINE	END ITEM NOMENCLATURE	FY 2008	FY 2009	FY 2010	FY 2011	<u>2012</u>	2013	2014	<u>2015</u>
1	AIM-9 Tactical AIM Missile (0207161F)	4.660	4.695	0.819					
2	AGM-86 Air Launced Cruise Missile (0101122F) (ALCM)	0.295	0.299	10.906					
3	LGM-30 MINUTEMAN (0101213F) (MM III)	18.288	6.343	40.420					
7	AGM-88A Tactical AGM Missile (0207162F) (HARM)	3.110	3.132	6.411					
8	AIM-120 Advanced Medium Range Air to Air Missile (0207163F) (AMRAAM)	0.204	0.211	0.803					
10	AGM-65D Maverick (0207313F)	1.594	2.564	0.000					
	TOTAL REPLENISHMENT SPARES	28.151	17.244	59.359					

Replenishment Spare Funding Summary Exhibit P-18A, page 3 of 4

, i	enishment Spare Funding Code/CC/BA/BSA/Item Control Number		P-1 Line	Date: May 20 Item Nomenclature	
Missile Procure	ment, Air Force, Budget Activity 04, Othe	er Support, Item No. 16	Missil	e Initial/Replenish	ment Spares
Replenishment Spare Tunding	Replenishment Spare Funding				
P-1 LINE	END ITEM NOMENCLATURE	<u>FY 2008</u>	FY 2009	FY 2010	FY 2011
	WCF SPARES				
	EXEMPT SPARES	28.151	17.244	59.359	
	TOTAL REPLENISHMENT SPARES	28.151	17.244	59.359	

Replenishment Spare Funding Exhibit P-18A, page 4 of 4

FISCAL YEAR (FY) 2010 BUDGET ESTIMATES BUDGET ACTIVITY 05 – SPACE AND OTHER SUPPORT MAY 2009

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Exhibit P-40, Budget Item Jus	tification								D	ate: May 20	009	
Appropriation (Treasury) Code/CC/BA/E	SSA/Item Con	trol Number						P-1 Line Iter	n Nomenclatu	re		
Missile Procurement, Air	Force, E	Budget Act	ivity 05,	Other Su	ipport, It	em No. 1	4	Advanc	ed EHF			
Program Element for Code B Items	s:	Elements:		0603430F								
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	1			1							2
Cost (\$ M)		521.888	0.739	16.065	1843.475						TBD	TBD
Advance Proc Cost (\$ M)		78.226	149.155	149.557							0.000	376.938
Weapon System Cost (\$ M)		600.114	149.894	165.622	1843.475						TBD	TBD
Initial Spares (\$ M)												0.000
Total Proc Cost (\$ M)		600.114	149.894	165.622	1843.475						TBD	TBD
Flyaway Unit Cost (\$ M)												
Wpn Sys Unit Cost (\$ M)												

Description

This program has associated Research Development Test and Evaluation funding in PE 63430F.

Develop and acquire Advanced Extremely High Frequency (AEHF) Military Satellite Communications (MILSATCOM) satellites, mission control segment and cryptography for survivable, anti-jam, worldwide, secure communications for the strategic and tactical warfighter. AEHF satellites will replenish the existing EHF system (Milstar) at much higher capacity and data rate (5x increase over Milstar II) capabilities. AEHF is a cooperative program that includes International Partners (Canada, the United Kingdom, and The Netherlands).

In 2004, the Milestone Decision Authority (MDA) decided to maintain the AEHF and Transformational Satellite Communications System (TSAT) baselines, achieving AEHF FOC-equivalency with the first TSAT. The FY06 Department of Defense Quadrennial Defense Review's approach was to buy three AEHF satellites and use the first TSAT satellite to complete an eXtended Data Rate (XDR) constellation. However, in the FY08 Appropriations Act, Congress directed the Department to purchase a fourth satellite and appropriated advance procurement; and encouraged the inclusion of an option for a fifth satellite. The Department budgeted Space Vehicle-4 (SV-4) Full Procurement in FY10. In February 2008, the SECAF notified Congress of a significant unit cost breach and that a robust cost estimate was required to understand the full extent of the 4-year production break since SV-3. In September 2008, the SECAF notified Congress of a critical unit cost breach on completion of a Service Cost Position (SCP), triggering a Nunn-McCurdy (N-M) review. First time integration and test challenges, and flight hardware problems with SV-1 have delayed SV-3, the first procurement funded satellite. The schedule delays to SV-3 exacerbated the unit cost growth. An OSD Cost Analysis Improvement Group (CAIG) Independent Cost Estimate (ICE) for a four-satellite constellation was completed in November 2008. The budget was increased to match the OSD CAIG cost estimate. The N-M review has been completed and the program was certified on 29 December 2008.

SV-3 launch has been delayed to September 2012 and SV-4 is projected to launch in September 2016.

FY 2010 Program Justification

Fund efforts such as SV-4 full procurement, to include obsolescence and spares, and SV-3 cost overrun. Begin SV-4 fabrication; continue SV-3 production, test and efforts such as exercising the launch operations support and flight operations/on-orbit support CLINs; continue technical support to include studies and analyses of future SVs; and continue program office and related support.

P-1 Shopping List Item No. 14

Budget Item Justification Exhibit P-40, page 1 of 7

Exhibit P-5, Weapon System Cost Analy	sis									Date: N	/lay 2009)	
Appropriation (Treasury) Code/CC/BA/BSA/Item Cont								P-1 Line	Item Nomer	nclature			
Missile Procurement, Air Force, B	Budget A	Activity	/ 05, Oth	er Supp	ort, Ite	m No. 1	4	Adva	nced El	łF			
Manufacturer's Name/Plant City/State Location	1			Subline Ite	em								
Weapon System	Ident						Cost in Mi	llions of I					
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Co	st to Compl	
				Total			Total			Total			Total
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost		Qty	Unit Cost	Cost
Satellite Vehicle 3 procurement										351.613			
Satellite Vehicle 3 launch support services										7.351			
Satellite Vehicle 3 flight ops/on-orbit support							0.000			2.268			
Satellite Vehicle 4 Advance Procurement				149.155			149.557						
Satellite Vehicle 4 Full Funding to include obsolescence and spares								1		1467.561			
Satellite Vehicle 4 launch support services													TBD
Technical Support to includes studies and				0.720			12.200			11.020			
analyses of future SVs				0.739			13.209			11.820			TBD
Program Office Support							2.856			2.862			TBD
TOTAL PROGRAM				149.894			165.622			1843.475			TBD
Comments			•									•	
Budget increased to match the OSD CAIG cost	estimate.	FY10 ad	ds funds for	SV-4 full	procurem	ent and SV	-3 cost ove	rrun.					
<u>*</u>													
			P-1 Sho	pping List	Item No.	. 14				Weapo	n Svste	m Cost Ar	alvsis
										1		P-5, page	

Exhibit P-5A, Procuremen	t History	and Planni	ng							Date: May	2009	
Appropriation (Treasury) Code/CC/	BA/BSA/Ite	em Control Num	nber					P-1 Line Ite	em Nomenclati	ure		
Missile Procurement,	Air For	ce, Budge	et Activity	/ 05, Othe	er Suppo	rt, Item N	o. 14	Advand	ced EHF			
Weapon System					Subline Ite	m						
EHF		<u> </u>		<u> </u>			1		1	I	1-	T_
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and	Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revision Available?
Satellite Vehicle 3	1	951.727	SMC	Sep-05	SS	CPAF	Lockheed Mar Sunnyvale, CA	,	Jan-06	Jul-12	No	
Satellite Vehicle 4	1	1766.273	SMC	Mar-09	SS	FPI	Lockheed Mar Sunnyvale, CA		Nov-09	Jul-16	No	
<u>Remarks</u>												
Satellite Vehicle 3 Unit Cost is 2005. Full Procurement contra on the SV-3 schedule and fund Satellite Vehicle 4 unit cost is	ct was aw ing as wel	varded in Janu II.	ary 2006. Fi	rst time integ								
success of the cost is	oused on		o cost ostina									

Procurement History and Planning Exhibit P-5A, page 4 of 7

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																		•	-1 Line											
Mi	ssile Procureme	nt, Air	Force	, Budg	jet Act	ιivit	.y 0	<u>5, O</u>	the	r Su	1pp	ort,	lten	<u>ո N</u> (<u>ა. 1</u>	4		Α	dva	ncc	<u> </u>	<u>:HF</u>								
	PROCUREMENT YEAR	PROCUREMENT YEAR R QTY TO AS OF O N D J F M A M J V 1 OCT 1 OCT C O E A E A P A U U U C 2005 2005 T V C N B R R Y N											R YEA J U	A U	S E	0 C	N O	D E	J A	F E	M A	A P	DAR Y M A	YEAR 20 J U	007 J U	A U	S E	L A T E		
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Production Schedule Exhibit P-21, page 5 of 7

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Exh	hibit P-21, Productio	n Sche	dule															Т					Date	e: Ma	ay 20	ე09				
Appr	ropriation (Treasury) Code/	/CC/BA/B	SA/Item C	ontrol Nu	ımber													P-	1 Line	e Item	1 Nom	nencla	ıture							
Mis	ssile Procuremer	nt, Air	Force	, Budç	jet Ac	tivit	y 05	, O	the	r Su	ppc	ort,	Iter	n Ne	ა. 1	4		Α	dva،	ance	ed F	EHF								
		S E					2007	<u> </u>	\equiv		SCAL Y		2008	ENDAF			8					FIS		YEAR 2 CALEND		YEAR 2	2009	_		L A
	PROCUREMENT YEAR	R V	PROC QTY	TO 1 OCT 2007	AS OF 1 OCT 2007	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	T E R
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	M/MANUFACTURER'S NAME		LOCATION	N	SUST	HOUF		A X								D TIME	TER		MFG TIME		/	AFTER	R							
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REM	IARKS																													

Production Schedule Exhibit P-21, page 6 of 7

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Ex	hibit P-21, Production	n Sche	dule																				Date	э: Ма	ay 20	009				\neg
App	propriation (Treasury) Code	/CC/BA/B	SA/Item C	ontrol Nu	mber													P-	1 Line	e Item	Nom	nencla	ture							\Box
Mi	ssile Procureme	nt, Air	Force	, Budg	get Act	ivit	y 05	, O	ther	^r Su	ppo	ort,	lter	n N	o. 1	4		A	dva	nce	ed E	EHF								
		S		ACCEP PRIOR	BALANCI DUE		2009			FIS	CAL Y	YEAR		FNDA	R YEA	R 201	0				l	FIS		YEAR ?		EAR 2	2011		=	L A
	PROCUREMENT YEAR	E R V	PROC QTY	TO 1 OCT 2009	AS OF 1 OCT 2009	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	T E R
	2006	USAF	1	0	1		\square																					\square	=	1
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					PRODUC									PRC			ΓLEAD	TIME						\sqsubseteq						
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Production Schedule Exhibit P-21, page 7 of 7

Exhibit P-40, Budget Item Jus	tification								D	ate: May 2	009	
Appropriation (Treasury) Code/CC/BA/E	SSA/Item Con	trol Number						P-1 Line Iter	n Nomenclatu	ıre		
Missile Procurement, Air	Force, E	Budget Act	ivity 05,	Other Su	ipport, It	em No. 1	5	Advanc	ed EHF A	Advance	Procurer	nent
Program Element for Code B Items	S:	N/A	Elements:		Advanced	EHF (PE 63	430F)					
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	0										0
Cost (\$ M)												0.000
Advance Proc Cost (\$ M)		78.226	149.155	149.557							0.000	376.938
Weapon System Cost (\$ M)		78.226	149.155	149.557	0.000							376.938
Initial Spares (\$ M)												0.000
Total Proc Cost (\$ M)		78.226	149.155	149.557	0.000	0.000						376.938
Flyaway Unit Cost (\$ M)												
Wpn Sys Unit Cost (\$ M)												

Description

This program has associated Research Development Test and Evaluation funding in PE 63430F.

Develop and acquire Advanced Extremely High Frequency (AEHF) Military Satellite Communications (MILSATCOM) satellites, mission control segment and cryptography for survivable, anti-jam, worldwide, secure communications for the strategic and tactical warfighter. AEHF satellites will replenish the existing EHF system (Milstar) at much higher capacity and data rate (5x increase over Milstar II) capabilities. AEHF is a cooperative program that includes International Partners (Canada, the United Kingdom, and The Netherlands).

In 2004, the Milestone Decision Authority (MDA) decided to maintain the AEHF and Transformational Satellite Communications System (TSAT) baselines, achieving AEHF FOC-equivalency with the first TSAT. The FY06 Department of Defense Quadrennial Defense Review's approach was to buy three AEHF satellites and use the first TSAT satellite to complete an eXtended Data Rate (XDR) constellation. However, in the FY08 Appropriations Act, Congress directed the Department to purchase a fourth satellite and appropriated advance procurement. The Department budgeted AEHF 4 Full Procurement in FY10. Congress approved an FY08 \$25M OMNIBUS reprogramming increase and appropriated an additional \$150M AEHF 4 Advance Procurement in the FY09 Appropriations Act.

FY 2010 Program Justification

N/A.

P-1 Shopping List Item No. 15

Budget Item Justification Exhibit P-40, page 1 of 3

Exhibit P-10 p.1, Advanc	e Procurer	ment Requi	rements A	Analysis	ONOL	AJJIFIL				Da	te: May 20	09			
(Page 1 - Funding) Appropriation (Treasury) Code/C	C/D	en Calataal Nive	la a u					-) 4 I in a Itama	N = == = = = = = = + · · · ·					
Missile Procurement				∩5 ∩+	har Suni	oort Iton	. No. 15	•		Nomenclature		Procurem	ont		
Weapon System	, All For	ce, buuge	FL ACTIVIT	ty UJ, Ut	nei Sup	First System			Auvance		Completion		ICIIL		
EHFAP						i iist Oystein	Awara Date			i iist Oysteii	Compiction	Date			
	1	1 1			(\$ in	Millions)	I	1	1		1				
<u>Description</u>	PLT	When Rqd	<u>Prior</u> <u>Years</u>	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	<u>Total</u>		
End Item Qty												0	0		
CFE	FE 0.0 FE 0.0														
FE 0.0															
	· -	· · ·							· 1						
OQ 0.0															
Design 0.0															
Term Liability		-											0.000		
Parts Obsolescence Study	<u> </u>			5.000									5.000		
Other Advance Funding	16	5	78.226										371.938		
TOTAL AP			78.226	149.155	149.557	0.000							376.938		
Description															
FY05 funded the advance pro	ocurement of	f parts for SV	-3. Items s	uch as fligh	t batteries; l	long lead ele	ectronic par	ts; reaction	wheels; the	phased array	v structure;	payload circ	uits,		
gimbals, and amplifiers; and		-		_		-	-			-	, , , , ,		,		
1 ,		•	C I		1.1	-	, 0		C						
In FY08, Congress appropria	ted \$125M a	advance proci	urement for	SV-4. Due	to an exten	ided produc	tion gap bet	ween the th	ird and four	th satellites,	a parts obse	olescence stu	ıdy was		
initiated in Jan 08. A contract	et for SV-4 l	ong lead parts	s was award	ded in July (08. Congres	ss approved	an FY08 \$2	5M OMNI	BUS reprog	ramming inc	crease and a	ppropriated	an		
additional \$150M SV-4 adva	nce procure	ment in FY09).	•											
	•														
				D_1 Ch/	opping List	Itom No. 1	5		Advana	o Droouro	mont Dog	uiromonto	Analysis		
				r-1 3110	opping List	ILEIII INU. I	J		Auvano	e Flocure		uirements Page 1 - Fi			
												10 p 1 poo			

Exhibit P-10 p.2, Advanc (Page 2 - Budget Justific		nent Req	uirements	Analys	is							Date: M	ay 2009		
Appropriation (Treasury) Code/C	C/BA/BSA/Ite	m Control No	umber							P-1 Line Ite	em Nomencl	ature			
Missile Procurement	, Air For	ce, Bud	get Activ	ity 05,	Other S	Support	t, Item	No. 15		Advan	ced EHF	- Advar	nce Pro	ocurem	ent
Weapon System															
EHFAP															
					<u>(T</u> 0	OA, \$ in N	Millions)								
					2008	2008		2009	2009		2010	2010		2011	<u>2011</u>
					Contract	<u>Total</u>		Contract	<u>Total</u>		Contract	<u>Total</u>		Contract	<u>Total</u>
				<u>2008</u>	<u>Forecast</u>	<u>Cost</u>	<u>2009</u>	Forecast	Cost	<u>2010</u>	<u>Forecast</u>	<u>Cost</u>	<u>2011</u>	Forecast	<u>Cost</u>
<u>Description</u>	<u>PLT</u>	<u>QPA</u>	Unit Cost	<u>OTY</u>	<u>Date</u>	Request	<u>OTY</u>	<u>Date</u>	Request	QTY	<u>Date</u>	Request	QTY	<u>Date</u>	Request
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EOQ			<u> </u>		1 00										
Parts Obsolescence Study					Jan-08	5.000							-		
Design					<u> </u>										
Term Liability	1.6				Jul-08	144 155		Feb-09	140.557						
Other Advance Funding	16				Jui-06	144.155	1	Feb-09	149.557		-	0.000	,		
TOTAL AP						149.155			149.557			0.000			
<u>Description</u>															
In FY08, Congress appropria	ted advance	procureme	nt for SV-4	. Due to	an extende	d producti	ion gap b	etween sate	ellites 3 ar	ıd 4, a paı	rts obsoles	cence stud	ly was ini	tiated in Ja	ın 08.
A contract for SV-4 long lead	l parts was a	warded in	July 08. Co	ntract inc	cludes the d	lesign, pro	oduction,	and related	d support o	of SV-4 lo	ong lead pa	rts for the	Monolit	hic Microv	vave
Integrated Circuit Design/Pro	duction and	the Timing	g Generator	Unit Des	ign. Addit	ionally, it	ems such	as Applica	ation-Spec	ific Integ	rated Circu	its (ASIC	s), Static	Random A	Access
Memory (SRAM), Gimbal D	ish Antenna	(GDA), G	imbal Drive	Mechani	ism (GDM)	, Reaction	n Wheel	Assembly ((RWA), H	all Thrus	ters, and ot	her units	that requi	re longer	
procurement time to support	the production	on, integrat	tion and test	ing of SV	7-4.										
				P-1	Shopping	List Item	1 No. 15			Adva	nce Proc				
														et Justifi	
												Exhi	DIT P-10	p.2. page	3 of 3

Exhibit P-40, Budget Item Ju	stification								D	ate: May 2	009	
Appropriation (Treasury) Code/CC/BA	/BSA/Item Cor	ntrol Number						P-1 Line Iter	m Nomenclatu	re		
Missile Procurement, A	ir Force, I	Budget Act	ivity 05,	Other Su	ipport, It	em No. 1	16	Wideba	nd Gapfi	ller Sate	llites (Spa	ace)
Program Element for Code B Iter	ns:	N/A	Elements:		PE 060385	4F						
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	4	1								TBD	TBD
Cost (\$ M)		973.801	312.335	21.628	201.671						TBD	TBD
Advance Proc Cost (\$ M)		138.343			62.380						TBD	TBD
Weapon System Cost (\$ M)		1112.144	312.335	21.628	264.051						TBD	TBD
Initial Spares (\$ M)		0.000										0.000
Total Proc Cost (\$ M)		1112.144	312.335	21.628	264.051						TBD	TBD
Flyaway Unit Cost (\$ M)												
Wpn Sys Unit Cost (\$ M)												

Description

This program has associated Research Development Test and Evaluation funding in PE 63854F.

The Wideband Global SATCOM (WGS) System, previously known as the Wideband Gapfiller Satellite System, provides the DoD with high data rate military satellite communication (MILSATCOM) services in accordance with the Joint Space Management Board-approved MILSATCOM architecture (August 1996), the Joint Requirements Oversight Council (JROC)-approved MILSATCOM Capstone Requirements Document (October 1997), and JROC-approved WGS Operational Requirements Document (May 2000). This program was originally conceived to augment the near term "bandwidth gap" in warfighter communications needs. Dual-frequency WGS satellites augment, then replace the DoD's Defense Satellite Communications System X-band service and augment one-way Global Broadcast Service Ka-band capabilities. In addition, WGS provides a new high capacity two-way Ka-band service.

The first and second WGS satellites were successfuly launched on 10 October 2007 and 3 April 2008, respectively. The third satellite launch is scheduled for August 2009.

Satellites 4 and 5 will have slight modifications to better support the Airborne Intelligence, Surveillance and Reconnaissance mission.

A United States-Australia WGS partnership was codified 14 November 2007. Australia is providing funds needed to buy WGS-6 in exchange for access to constellation-wide resources.

Congress appropriated \$40M FY09 funds for WGS sustainment and evolution. In order to address sustainment, \$30M of the congressional add has been internally reprogrammed to Missile Procurement, Air Force funds. The remainder will fund evolutionary study efforts to include lasercom and other potential study efforts.

FY 2010 Program Justification

FY10 funding includes: Satellite 7 long lead parts procurement, Satellite 4 storage, Satellites 2 and 3 on-orbit hardware/software support, parts obsolescence, spares, mission assurance, Federally Funded Research and Development Center (FFRDC) technical analysis, test support, program office and other related support activities.

P-1 Shopping List Item No. 16

Budget Item Justification Exhibit P-40, page 1 of 7

Exhibit P-5, Weapon System Cost Anal Appropriation (Treasury) Code/CC/BA/BSA/Item Co Missile Procurement, Air Force,	ntrol Number	Λ otivity	05 Oth	or Supp	ort Ita	m No. 1	•		e Item Nomen	clature	May 2009	es (Spac	۵)
Manufacturer's Name/Plant City/State Location	_	Activity	05, Oth	Subline Ite		ili NO. I	0	Ivvide	band Ga	priner	Satemi	es (Spac	e)
Transfer of Traine, I faint City, State Location	<i></i>			Buonne ne									
Weapon System	Ident					Total (Cost in Mi	llions of	Dollars				
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Co	ost to Compl	lete
				Total			Total			Total			Total
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost
Flyaway Cost	A					+			 			-	
Hardware-Recurring	A					1							
Vehicle	A	1		331.061									
Subtotal Recurring	A	1		331.061									
Non-recurring & Ancillary Cost	A									164.380			
Tooling & Test Equipment	A												
Subtotal Non-recurring	A									164.380			
Total Flyaway Cost	A	1		331.061									
Program Office Support Cost*	A			3.450			2.978			7.520			
Total Support Cost	A			3.450			2.978			7.520			
Checkout & Launch	A			22.185			4.609			7.465			
Storage, Reactivation, & Transport	A									4.543			
Launch Services - Flight Support	A												
Technical Analysis Support				6.339			14.042			17.763			
Total Checkout & Launch	A			28.524			18.650			29.771			
Net P-1 Funding Cost	A			363.035			21.628			201.671			
Less Advance Procurement (Prior Year)	A			-50.700									
Procurement Cost	A												
Plus Advance Procurement (Current Year)	A									62.380			
TOTAL PROGRAM				312.335			21.628			264.051			
* Program Office Support Cost includes SPO	operations (such as tra	ivel, suppl	ies, acquisi	tion miss	ion support,	etc.), SET	A, and S	ystems Engi	neering ar	nd Integra	ition	
			P-1 Sho	pping List	Item No.	. 16				Weapo		m Cost Ar P-5, page	

Exhibit P-5A, Procurement	History	and Planni	ing							Date: May 2	2009	
Appropriation (Treasury) Code/CC/B	A/BSA/Ite	m Control Num	nber					P-1 Line Ite	m Nomenclati	ure		
Missile Procurement, A	Air For	ce, Budg	et Activity	, 05, Oth	er Suppo	rt, Item N	o. 16	Wideba	and Gapfi	iller Sate	ellites (Sp	ace)
Weapon System					Subline Ite	m						
WBd												
WDG C. A FI			Location of		Contract	Contract		17		Date of First	Specs Available	Date Revision
WBS Cost Elements	Qty	Unit Cost	PCO	Date	Method	Туре	Contractor and	d Location	Award Date	Delivery	Now?	Available?
Satellites 1 & 2	2	246.300	SMC	Jun-00	SS	FFP	BSS, El Segui	ndo, CA	Jan-02	Mar-08	Yes	
Satellite 3	1	246.300	SMC	Jun-00	SS	FFP	BSS, El Segui	ndo, CA	Nov-02	Jan-10	Yes	
Satellite 3 Launch Services/Flight Ops Support			SMC		SS	FFP	BSS, El Segui	ndo, CA	Nov-05			
Satellite 4	1	376.463	SMC	Apr-05	SS	FPI	BSS, El Segui	ndo, CA	Nov-06	Oct-11	No	
Satellite 5	1	343.864	SMC	Apr-05	SS	FPI	BSS, El Segui	ndo, CA	Dec-07	Oct-12	No	
Satellite 6 (Australia funded)												

Remarks

Satellites 1-3 Unit Cost: The above unit cost is the Average Procurement Unit Cost (BY01). This includes both Missile Procurement and Other Procurement, but does not include the WGS program development costs or other RDT&E.

Launch Services/Flight Ops Support: Date of delivery varies for each satellite.

Satellites 4-5 Unit Cost: The above unit cost is TY\$ based on Missile Procurement only (includes production of satellite vehicle, Launch Services and Launch Site Procurement).

Satellite 4 Advance Procurement contract was awarded in February 2006 and Full Procurement in November 2006.

Satellite 5 Advance Procurement contract was awarded in December 2006 and Full Procurement in December 2007.

Satellite 6 (AUS funded) Advance Procurement contract was awarded in December 2007 and Full Procurement in December 2008.

"Date of First Delivery" [satellites 1-3] from contractor to the government is approximately five months after launch. DD250 is signed after satellite is on orbit and tested by Boeing.

"Date of First Delivery"/DD250 signing for satellites 4-6 is accomplished upon ignition of their respective launch vehicles.

P-1 Shopping List Item No. 16

Procurement History and Planning Exhibit P-5A, page 4 of 7

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xhibit P-21, Production Sched	lule																				Date	e: Ma	ay 20	009				
ppropriation (Treasury) Code/CC/BA/BS	A/Item Co	ontrol Nur	mber													P-	1 Line	e Item	Nom	encla	ture							
Missile Procurement, Air F	orce,	Budg	jet Act	tivit	y 05	5, O	the	r Su	ppo	ort,	Iten	n No	o. 1	6		W	/ide	bar	nd C	Зар	fille	r Sa	atel	lites	s (S	pac	e)	
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Production Schedule Exhibit P-21, page 5 of 7

Ex	hibit P-21, Productio	n Sche	dule																			Date	e: Ma	ay 20	009				
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Exh	nibit P-21, Production	n Sche	dule																				Date	e: Ma	ay 20	009				
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Exhibit P-40, Budget Item Jus	tification								D	ate: May 2	009	
Appropriation (Treasury) Code/CC/BA/E	3SA/Item Con	trol Number						P-1 Line Iter	n Nomenclatu	ire		
Missile Procurement, Air	Force, E	3udget Act	ivity 05,	Other Su	ipport, Ite	em No. 1	7	Wideba	nd Gapfi	Iler Sate	lites (Spa	ace)
				Advanc	e Procur	ement		-				
Program Element for Code B Items	s:	N/A	Elements:		PE 060385	4F						
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A											0
Cost (\$ M)			312.335	21.628	201.671							535.634
Advance Proc Cost (\$ M)		87.643			62.380						TBD	TBD
Weapon System Cost (\$ M)		87.643	312.335	21.628	264.051						TBD	TBD
Initial Spares (\$ M)												0.000
Total Proc Cost (\$ M)		87.643	312.335	21.628	264.051						TBD	TBD
Flyaway Unit Cost (\$ M)												
Wpn Sys Unit Cost (\$ M)												

Description

This program has associated Research Development Test and Evaluation funding in PE 63854F.

The Wideband Global SATCOM (WGS) System, previously known as the Wideband Gapfiller Satellites, will provide the DoD with high data rate military satellite communication (MILSATCOM) services in accordance with the Joint Space Management Board-approved MILSATCOM architecture (August 1996), the Joint Requirements Oversight Council (JROC)-approved MILSATCOM Capstone Requirements Document (October 1997), and JROC-approved WGS Operational Requirements Document (May 2000). This program was originally conceived to augment the near term "bandwidth gap" in warfighter communications needs. These dual-frequency WGS satellites will augment the DoD's Defense Satellite Communications System X-band service and one-way Global Broadcast Service Ka-band capabilities. In addition, WGS will provide a new high capacity two-way Ka-band service.

The first and second WGS satellites were successfully launched on 10 October 2007 and 3 April 2008, respectively. The third satellite launch is scheduled for August 2009, respectively.

Satellites 4 and 5 will have slight modifications to better support the Airborne Intelligence, Surveillance and Reconnaissance mission. Launches for satellites 4-5 are scheduled for October 2011 and October 2012, respectively.

A United States-Australia WGS partnership was codified 14 Nov 07. Australia is providing funds needed to buy WGS-6 in exchange for access to constellation-wide resources. Launch for satellite 6 is scheduled for March 2013.

FY 2010 Program Justification

Funds advance parts buy for Satellite 7

P-1 Shopping List Item No. 17

Budget Item Justification Exhibit P-40, page 1 of 3

					UNCL	ASSIFIE	D						
Exhibit P-10 p.1, Advano (Page 1 - Funding)	e Procuren	nent Requir	rements A	nalysis						Da	te: May 200	5 9	
Appropriation (Treasury) Code/C Missile Procurement				y 05, Otl	her Supp	ort, Iten	n No. 17		P-1 Line Item Wideban Advance	d Gapfill Procure	er Satelli ment		ce)
Weapon System						First System	Award Date			First System	Completion [
WBd AP					(Φ :-	NATIO N	Oct	t-00			Nov	-03	
			D' a.r.		(\$ In	Millions)		l	1	1			
Description	PLT	When Rqd	<u>Prior</u> <u>Years</u>	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	2 FY 2013	FY 2014	FY 2015	To Comp	<u>Total</u>
End Item Qty			4	1								TBD	5
								1		1			
CFE													0.000
GFE													0.000
F00	1							<u> </u>		1			0.000
EOQ												 	0.000
Design											<u> </u>	\longmapsto	0.000
Term Liability													0.000
Other Advance Funding	12		87.643			62.380						\longrightarrow	150.023
TOTAL AP			87.643	0.000	0.000	62.380							150.023
Description													
Long lead parts for Satellite	7 is funded in	FY 2010.											

Advance Procurement Requirements Analysis (Page 1 - Funding) Exhibit P-10 p.1, page 2 of 3

Exhibit P-10 p.2, Advan (Page 2 - Budget Justifi		nent Req	uirements	Analysi	is							Date: M	ay 2009		
Appropriation (Treasury) Code/	CC/BA/BSA/Iter	m Control No	ımber							P-1 Line Ite	em Nomencl	ature			
Missile Procuremen	nt, Air Ford	ce, Bud	get Activ	ity 05,	Other S	Support	t, Item	No. 17	1	Wideba	and Gap	ofiller S	atellite	s (Spac	e)
										Advan	ce Proc	uremer	nt		
Weapon System									•						
WBd AP															
					<u>(T</u>	OA, \$ in I	Millions)								
					2008	2008		<u>2009</u>	2009		<u>2010</u>	2010		<u>2011</u>	<u>2011</u>
					Contract			Contract	<u>Total</u>		Contract	<u>Total</u>		Contract	<u>Total</u>
				<u>2008</u>	Forecast	Cost Request	<u>2009</u>	<u>Forecast</u>		<u>2010</u>	<u>Forecast</u>		<u>2011</u>	<u>Forecast</u>	<u>Cost</u>
<u>Description</u>	<u>PLT</u>	<u>OPA</u>	Unit Cost	Request	<u>OTY</u>	<u>Date</u>	Request	<u>OTY</u>	<u>Date</u>	Request					
End Item															
CTT			ı	ı.	1			1		T.	1	T			1
CFE					-		ļ							+	
GFE															
EOQ					T			1				I		$\overline{}$	
Design															
Term Liability															
Other Advance Funding	12											62.380			
TOTAL AP						0.000			0.000			62.380			
Description															
Satellite 7 Advance Procure	ement contract	award is r	rojected for	20FY10)										
Satemite / Mavanee 110eure	ment contract	awara 15 p	rojected for	201110	<u>,, </u>										
				P-1	Shopping	List Iten	n No. 17			Adva	nce Proc	urement	Requir	ements A	nalysis
												(Page 2	2 - Budg	et Justific	cation)
												Exhil	bit P-10	p.2, page	3 of 3

Exhibit P-40, Budget Item Justification									Date: May 2009						
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number									P-1 Line Item Nomenclature						
Missile Procurement, Air Force, Budget Activity 05, Other Support, Item No. 18 Spaceborne Equipm										uipment (COMSEC	C)			
Program Element for Code B Items:		N/A			Other Related Program Elements:			None							
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total			
Proc Qty	A											0			
Total Proc Cost (\$ M)		66.969	18.119	17.328	9.871						TBD	TBD			

Description

Space Communications Security (COMSEC) is on the front line of AF Space and Information superiority goals. Space COMSEC provides communications security products to all DoD satellite systems. It enables secure command and control of DoD satellites and prevents unauthorized access and destruction. It enables secure transmission of satellite systems health and status telemetry data to ground control stations thus protecting critical information about the capabilities of DoD satellite systems. Space COMSEC provides the warfighter with global secure anti-jam communications capabilities. It provides secure transmission of information collected by sensor satellites, which provides the warfighter an integrated view of the battle space. Space COMSEC is a foundation enabler for achieving Information Superiority.

Space COMSEC Products are grouped in two primary product families: Mission Data and Command/Telemetry. The Mission Data Product family provides secure transmission for large volumes of satellite sensor data to the ground station for processing and enables secure anti-jam communications for the warfighter. The Command/Telemetry (CMD/TLM) Product family provides secure command and control of satellites.

FY 2010 Program Justification

Mission Data: No FY10 Funding Requested.

FY10 funds will procure CMD/TLM products providing secure transmission of satellite command and control uplinks and secure transmission of satellite telemetry and tracking data. All DoD satellite systems require secure command and control of the satellites, which make up the system and enable their missions. Satellite telemetry is securely transmitted from the satellite to ground station to protect the health and status information about DoD satellite systems. The CMD/TLM product family provides embedment satellite and stand alone space qualified COMSEC products to satellite systems. The CMD/TLM products cost from \$60,000 for a satellite embedment chip to \$500,000 per unit for stand alone COMSEC units. The high cost can be attributed to the specialized government requirements, radiation hardening, space-qualified components, and the low rate productions for satellite systems. Space Telemetry, Tracking and Commanding (TT&C) Aerospace Vehicle Equipment (AVE) Crypto Modernization program will utilize production funding from FY08 to FY15 and will seek approval for multiyear procurement strategy to reduce production costs.

P-1 Shopping List Item No. 18

Budget Item Justification Exhibit P-40, page 1 of 3

Exhibit P-5, Weapon System Cost Analysis									Date: May 2009						
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number									P-1 Line Item Nomenclature						
Missile Procurement, Air Force	er Supp	ort, Ite	m No. 1	8	Spaceborne Equipment (COMSEC)										
Manufacturer's Name/Plant City/State Location					Subline Item										
Various															
Weapon System	Ident	Total Cost in Millions of Dollars													
Cost Elements	Code		FY 2008	FY 2009				FY 2010			Cost to Complete				
				Total			Total			Total			Total		
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost		
Mission Data	A	9	1.500	13.500									TBD		
CMD/TLM	A	13	0.355	4.619	74	0.234	17.328	85	0.116	9.871			TBD		
TOTAL PROGRAM				18.119			17.328			9.871			TBD		
Comments			•												

P-1 Shopping List Item No. 18

Weapon System Cost Analysis Exhibit P-5, page 2 of 3

Date of First Available Revision	Weapon System				Subline Iter	n						
CMD/TLM (FY08) 12 243.167 WPAFB FORM9 FFP L-3 COMMUNICATION, CA	COMSEC WBS Cost Elements	Qty	Unit Cost		1		Contractor and	Location	Award Dat	First	Available	Revision
CMD/TLM (FY08) 12 243.167 WPAFB FORM9 FFP L-3 COMMUNICATION, CA Jun-08 Jul-09 Yes Mission Data (FY08) 9 1500.000 NSA MIPR FFP GENERAL DYNAMICS, Apr-08 Jun-09 Yes CMD/TLM (FY09) 2 1000.000 NSA MIPR FFP GENERAL DYNAMICS, Mar-09 Apr-10 Yes CMD/TLM (FY09) 10 250.000 CPSG FORM36 FFP GENERAL DYNAMICS, Mar-09 Apr-10 Yes CMD/TLM (FY09) 11 60.636 CPSG FORM36 FFP GENERAL DYNAMICS, Mar-09 Apr-10 Yes CMD/TLM (FY09) 51 240.000 NSA MIPR FFP GENERAL DYNAMICS, Apr-09 Jul-10 Yes CMD/TLM (FY10) 28 240.000 CPSG FORM36 FFP GENERAL DYNAMICS, Apr-10 Jul-11 Yes CMD/TLM (FY10) 57 57.965 CPSG FORM36 FFP GENERAL DYNAMICS, Apr-10 Jul-11 Yes	CMD/TLM (FY08)	1	1701.000	CPSG	FORM36	FFP	MYKOTRON	X, CA	Jun-08	Jul-09	Yes	
AZ		12			1	FFP	L-3 COMMUNICA			†	Yes	
AZ	Mission Data (FY08)	9	1500.000	NSA	MIPR	FFP		YNAMICS	, Apr-08	Jun-09	Yes	
AZ	CMD/TLM (FY09)	2	1000.000	NSA	MIPR	FFP		YNAMICS	, Mar-09	Apr-10	Yes	
AZ	CMD/TLM (FY09)	10	250.000	CPSG	FORM36	FFP	1	YNAMICS	, Mar-09	Apr-10	Yes	
AZ	CMD/TLM (FY09)	11	60.636	CPSG	FORM36	FFP	1	YNAMICS	, Mar-09	Apr-10	Yes	
CMD/TLM (FY10) 57 57.965 CPSG FORM36 FFP GENERAL DYNAMICS, Apr-10 Jul-11 Yes	CMD/TLM (FY09)	51	240.000	NSA	MIPR	FFP		YNAMICS	, Apr-09	Jul-10	Yes	
	CMD/TLM (FY10)	28	240.000	CPSG	FORM36	FFP		YNAMICS	, Apr-10	Jul-11	Yes	
	CMD/TLM (FY10)	57	57.965	CPSG	FORM36	FFP	GENERAL DY AZ	YNAMICS	, Apr-10	Jul-11	Yes	

Procurement History and Planning Exhibit P-5A, page 3 of 3

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Exhibit P-40, Budget Item Jus	tification								D	ate: May 2	009	
Appropriation (Treasury) Code/CC/BA/E	SSA/Item Con	trol Number						P-1 Line Iter	n Nomenclatu	ire		
Missile Procurement, Air	Force, E	Budget Act	ivity 05,	Other Su	ipport, It	em No. 1	9	Global I	Positioni	ng Syste	m (Space	e)
Program Element for Code B Items	S:	N/A			Other Relat	ed Program	Elements:					
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	61									0	61
Cost (\$ M)		2343.936	227.793	107.475	53.140						TBD	TBD
Advance Proc Cost (\$ M)		972.822	10.032	2.393							0.000	985.247
Weapon System Cost (\$ M)		3316.758	237.825	109.868	53.140						TBD	TBD
Initial Spares (\$ M)												0.000
Total Proc Cost (\$ M)		3316.758	237.825	109.868	53.140						TBD	TBD
Flyaway Unit Cost (\$ M)												
Wpn Sys Unit Cost (\$ M)												

Description

This program has associated Research Development Test and Evaluation funding in PE 0305165F.

The Navstar Global Positioning System (GPS) fills validated Joint Service requirements for worldwide, accurate, common grid three-dimensional positioning/navigation for military aircraft, ships, and ground personnel. The consistent accuracy, unaffected by location or weather and available in real time, significantly improves effectiveness of reconnaissance, weapons delivery, mine countermeasures and rapid deployment for all services. The system is composed of three segments: user equipment (funded under PE 0305164F), satellites and a control network. The satellites broadcast high-accuracy data using precisely synchronized signals which are received and processed by user equipment installed in military platforms. This equipment computes the platform position and velocity and provides steering vectors to target locations or navigation waypoints. The control segment provides daily updates to the navigation messages broadcast from the satellites to maintain system precision.

The Block IIR-M satellites are currently launched on Delta II, and Block IIF will be launched on the Evolved Expendable Launch Vehicle (EELV). Launch schedules are established based on constellation sustainment needs and launch manifest constraints. The system hosts the Nuclear Detonation Detection System (funded under PE 0305913F). The initial buy of 28 Block IIA satellites was awarded as a multiyear contract in September 1982 for a total of \$1.023 billion. A follow-on competitively awarded multiyear procurement of 21 Block IIR replenishment satellites began in FY1991 with final delivery in FY2000. Eight Block IIR satellites (IIR-M) have been modernized to include new military signals and a second civil signal.

The acquisition strategy for the Block IIF satellites was a competitive multiyear contract for 6 satellites awarded in FY1996. The first 6 Block IIF satellites are being modernized to include a new military signal and a second and third civil signal. The remaining IIF satellites (SV 7-12) will also be built in the modernized configuration.

FY 2010 Program Justification

FY2010 funding is required for IIF checkout and launch services and support costs and procurement of spacecraft transponder, quadruplexor, single board computers and VERSA Module Eurocard (VME) components.

P-1 Shopping List Item No. 19

Budget Item Justification Exhibit P-40, page 1 of 10

Exhibit P-40A, Budget Item Justificat	ion for Ag	gregated I	tems						Dat	e: May 200)9	
Appropriation (Treasury) Code/CC/BA/BSA/Item	Control Numb	er					P.	1 Line Item N	omenclature			
Missile Procurement, Air Force	e, Budget	Activity	05, Oth	er Suppo	ort, Item	No. 19	G	lobal Po	sitioning	g System	າ (Space	•)
		<u>Prior</u>										
Procurement Items (\$M)	ID Code	<u>Years</u>	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	<u>Total</u>
Block IIA	A	869.768	0.000	0.000	0.000							869.768
Quantity	A	28	0	0	0							28
Block IIR	A	1076.677	47.718	5.000	0.000							1129.395
Quantity	A	21	0	0	0							21
Block IIF	A	1370.313	180.075	102.475	53.140						TBD	1706.003
Quantity	A	12	0	0	0							12
Block III	A	0.000	10.032	2.393	0.000							12.425
Quantity	A	0	0	0	0							0
Total Adjustments		3316.758	237.825	109.868	53.140							3717.591
Quantity Total		61	0	0	0							61

<u>Remarks</u>

GPS III advance procurement: FY08 funding transferred to the regular procurement line for Block IIF in the FY08 Omnibus (will be updated in database in next budget	cycle)
FY09 funding will be tranferred in the execution year. Starting in FY10, GPS III advance procurement is transferred to the GPS III PE, 0305265F.	

Previous GPS Blocks are maintained on this form to preserve prior year funding accuracy.

P-1 Shopping List Item No. 19

Budget Item Justification for Aggregated Items
Exhibit P-40A, page 2 of 10

Exhibit P-5, Weapon System Cost Analy	⁄sis									Date: N	May 200	9	
Appropriation (Treasury) Code/CC/BA/BSA/Item Con	trol Number							P-1 Line	Item Nomer	nclature			
Missile Procurement, Air Force, E	Budget A	Activit	y 05, Oth	er Supp	ort, Ite	m No. 1	9	Globa	al Positi	oning S	ystem	(Space)	
Manufacturer's Name/Plant City/State Location	1			Subline It	em								
GPS III - Lockheed, King of Prussia, PA				GPS III									
Weapon System	Ident					Total	Cost in Mi	llions of l	Dollars				
Cost Elements	Code		FY 2008			FY 2009			FY 2010		С	ost to Comp	lete
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Oty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Flyaway Cost		Qty	Cint Cost	Cost	Qty	Omi Cost	Cost	Qty	Cint Cost	Cost	Qty	Cint Cost	Cost
Hardware-Recurring	A			0.000			0.000			0.000			TBD
Non-recurring & Ancillary Cost	A			0.000			0.000			0.000			TBD
TOTAL FLYAWAY COST													TBD
Checkout & Launch													
Storage, Reactivation & Transport	A			0.000			0.000			0.000			TBD
Launch Services Planning	A			0.000			0.000			0.000			TBD
Propellants	A			0.000			0.000			0.000			TBD
TOTAL CHECKOUT & LAUNCH COST													TBD
Support Cost													
Technical Support	A			0.000			0.000			0.000			TBD
Program Support	A			0.000			0.000			0.000			TBD
On-Orbit Planning Support	A			0.000			0.000			0.000			TBD
TOTAL SUPPORT COST													TBD
Less Advance Procurement Cost (Prior Yr)	1 4			0.000			0.000			0.000			TBD
Plus Advance Procurement Cost (Prior Yr) Plus Advance Procurement Cost (Current Yr)	A A			10.032		+	2.393			0.000			TBD
TOTAL PROGRAM	A			10.032			2.393			0.000			TBD
Comments				10.032			2.393						100

GPS III advance procurement: FY08 funding transferred to the regular procurement line for Block IIF in the FY08 Omnibus (will be updated in database in next budget cycle). FY09 funding will be transferred in the execution year. Starting in FY10, GPS III advance procurement is transferred to the GPS III PE, 0305265F. No GPS III FY10 funding is requested in this PE.

P-1 Shopping List Item No. 19

Weapon System Cost Analysis Exhibit P-5, page 3 of 10

									Date: M	1ay 2009	9	
rol Number							P-1 Line	Item Nomen	clature			
Sudget A	Activity	05, Oth	er Supp	ort, Ite	m No. 1	9	Globa	al Positio	oning S	ystem	(Space)	
			Subling Ita	m			-			-		
				111								
			Block IIK		T-4-1	Castin Mil	11: C T	Na 11 a ma				
		EV 2008	Т			Cost in Mil	inons of 1				at to Comm	lata
Code		F1 2008	Total		Г1 2009 	Total		F1 2010	Total		I Comp	Total
	Otv	Unit Cost		Otv	Unit Cost	1	Otv	Unit Cost		Otv	Unit Cost	Cost
	Qty	Omt Cost	Cost	Qty	Omi Cost	Cost	Qty	Omi Cost	Cost	Qty	Omi Cost	Cost
Α			0.000			0.000			0.000			
Α			4.500			0.000			0.000			
A			24.650			0.000			0.000			
A			0.940			0.000			0.000			
			30.090									
A			0.000			0.000			0.000			
A			0.000			0.000			0.000			
A									0.000			
			17.628			5.000						
A									0.000			
			47.718			5.000						
	A A A A A A A A A A A	A A A A A A A A A A A A A A A A A A A	SSIA/PA Ident Code FY 2008 Qty Unit Cost A A A A A A A A A A A A A A A A A A	SSIA/PA	SSIA/PA	SSIA/PA	Sisia/PA	Sisia/PA	Sizia/PA Block IIR Total Cost in Millions of Dollars	Sesia/PA Block IIR Total Cost in Millions of Dollars	Sizia/PA Block IIR Total Cost in Millions of Dollars	Sesia/PA Block IIR Total Cost in Millions of Dollars Total Cost to Comp

Exhibit P-5, Weapon System Cost Anal	ysis									Date: N	/lay 2009)	
Appropriation (Treasury) Code/CC/BA/BSA/Item Co	ntrol Number							P-1 Line	Item Nomen	clature			
Missile Procurement, Air Force,	Budget /	Activity	/ 05, Oth	er Supp	ort, Ite	m No. 1	9	Globa	al Position	oning S	ystem	(Space)	
Manufacturer's Name/Plant City/State Location	_		·	Subline Ite								· · ·	
·	·II				:111								
IIF - Boeing/Huntington Beach/CA		<u> </u>		Block IIF			~		~				
Weapon System	Ident						Cost in Mi	llions of I					_
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Co	ost to Comp	
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Flyaway Cost		Qij	Cint Cost	Cost	Qij	Cint Cost	Cost	Qij	Cint Cost	Cost	Qij	Cint Cost	Cost
Hardware-Recurring													
IIF Space Vehicle	A			131.400			50.415			3.500			0.000
Subtotal Recurring				131.400			50.415			3.500			
Non-recurring & Ancillary Cost	A			0.000			0.000			0.000			0.000
Subtotal Non-recurring													
TOTAL FLYAWAY COST	1		1										
Checkout & Launch												+ +	
Storage, Reactivation, & Transport	A			0.000			0.972			1.000			0.000
Integration & Checkout	1.1			0.100			0.300			0.221			0.000
Launch Services Planning	A			11.095			17.128			13.700			0.000
Propellants	A			0.252			1.000			1.000			0.000
TOTAL CHECKOUT & LAUNCH COST				11.447			19.400			15.921			
Support Cost	T		1										
Technical Support	A			27.481			16.705			19.402			0.000
Program Support	A			2.447			4.955			3.317		† †	0.000
On-Orbit Planning Support	A			7.300			11.000			11.000		† †	0.000
TOTAL SUPPORT COST				37.228			32.660			33.719			
Less Advance Procurement Cost (Prior Yr)	A									0.000			0.000
Plus Advance Procurement (Current Yr)	A									0.000			0.000
TOTAL PROGRAM				180.075			102.475			53.140			
Comments	•		•	·!									

P-1 Shopping List Item No. 19

Module Eurocard (VME) components.

Weapon System Cost Analysis Exhibit P-5, page 5 of 10

Appropriation (Treasury) Code/CC/BA/ Missile Procurement, Ai				05, Othe	er Suppo	rt, Item N	o. 19	Global	Positioni	ing Syste	em (Spac	e)
Weapon System			_		Subline Ite	m					-	-
GPS					Block IIF							
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and	Location	Award Data	Date of First	Specs Available Now?	Date Revision Available
WB3 Cost Elements	Qty	Cint Cost	100	Daic	Method	Турс	Contractor and	Location	Award Daic	Denvery	INOW:	Available
Boeing - IIF units 4-6 (Modernized)	3	62.900	SMC/GP	Dec-02	SS	FPI	Boeing, Huntin Beach, CA	igton	Dec-03	Aug-10	Yes	
Boeing - IIF units 7-9	3	68.700	SMC/GP	Dec-02	SS	FPI	Boeing, Huntin Beach, CA	igton	Oct-04	Apr-11	Yes	
Boeing - IIF units 10-12	3	55.973	SMC/GP	Dec-02	SS	FPI	Boeing, Huntin Beach, CA	igton	Oct-05	Nov-11	Yes	

P-1 Shopping List Item No. 19

Procurement History and Planning Exhibit P-5A, page 6 of 10

								Į	UNC	CLA	SS	IFIE	D																
Exhibit P-21, Production	n Sche	dule																				Date	e: Ma	ay 20)09				
Appropriation (Treasury) Code	/CC/BA/B	SA/Item C	ontrol Nu	mber													P-	-1 Lin	e Item	Nom	encla	ature							
Missile Procureme	nt, Air	Force	, Budg	jet Act	ivit	y 05	5, O	the	r Su	ippo	ort,	Iter	n N	o. 1	9		G	ilob	al F	osi	tior	ninç	ј Sy	ste	m (S	3pa	ce)		
	S E	PROC	ACCEP PRIOR	BALANCE DUE		2003			FIS	SCAL `	YEAR		ENDA	R YEA	R 2004	1					FIS	SCAL Y			EAR 20	005			L A
PROCUREMENT YEAR	R V	QTY	TO 1 OCT 2003	AS OF 1 OCT 2003	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 I.	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	T E R
1997	USAF	3	0	3			Ŭ			- `			- 1		Ŭ				Ŭ	- `			ì		1		Ŭ		3
1998	USAF	3	0	3																									3
2005	USAF	3	0	3																		↓		<u> </u>	igsquare	<u> </u>	igsquare		3
2006	USAF	3	0	3																		—		<u> </u>	╙	└	igsqcurve		3
2007	USAF	0	0	0										ļ								↓		<u> </u>	igsquare	└	igsquare		0
2008	USAF	0	0	0							<u> </u>			├								—		——	igspace	—	igsquare		0
2009	USAF	0	0	0							<u> </u>											—		<u> </u>	╙	——	igsquare		0
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Production Schedule Exhibit P-21, page 7 of 10

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Production Schedule Exhibit P-21, page 8 of 10

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Production Schedule Exhibit P-21, page 9 of 10

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	hibit P-21, Production																	I					Date	e: M	ay 20	009				
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Production Schedule Exhibit P-21, page 10 of 10

Exhibit P-40, Budget Item Jus	tification								D	ate: May 2	009	
Appropriation (Treasury) Code/CC/BA/B	SA/Item Cont	trol Number						P-1 Line Iter	n Nomenclatu	ıre		
Missile Procurement, Air	Force, E	Budget Act	ivity 05,	Other Su	ipport, It	em No. 2	20	Global I	Positioni	ng Syste	m (GPS)	Advance
								Procure	ment			
Program Element for Code B Items	3:	N/A			Other Relat	ted Program	Elements:					
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	61									0	61
Cost (\$ M)											0.000	0.000
Advance Proc Cost (\$ M)		972.822	10.032	2.393							0.000	985.247
Weapon System Cost (\$ M)		972.822	10.032	2.393	0.000							985.247
Initial Spares (\$ M)		0.000										0.000
Total Proc Cost (\$ M)		972.822	10.032	2.393								985.247
Flyaway Unit Cost (\$ M)				·								
Wpn Sys Unit Cost (\$ M)												

Description

The Navstar Global Positioning System (GPS) fills validated Joint Service requirements for worldwide, accurate, common grid three-dimensional positioning/navigation for military aircraft, ships, and ground personnel. The consistent accuracy, unaffected by location or weather and available in real time, significantly improves effectiveness of reconnaissance, weapons delivery, mine countermeasures and rapid deployment for all services. The system is composed of three segments: user equipment (funded under PE 0305164F), satellites and a control network. The satellites broadcast high-accuracy data using precisely synchronized signals which are received and processed by user equipment installed in military platforms. This equipment computes the platform position and velocity and provides steering vectors to target locations or navigation waypoints. The control segment provides daily updates to the navigation messages broadcast from the satellites to maintain system precision.

There is no remaining advance procurement for Block IIR/IIRM/IIF. Advance Procurement for GPS III is transferred to PE 0305265F starting in FY10.

FY 2010 Program Justification

No FY10 funding is requested.

P-1 Shopping List Item No. 20

Budget Item Justification Exhibit P-40, page 1 of 3

					UNCL	ASSIFIE	D						
Exhibit P-10 p.1, Advan (Page 1 - Funding)	ce Procure	ement Requi	rements A	Analysis						Da	te: May 20	09	
Appropriation (Treasury) Code	CC/BA/BSA/Ite	em Control Num	ber						P-1 Line Item I	Nomenclature	!		
Missile Procuremer	nt. Air Foi	rce. Budae	et Activi	tv 05. Ot	her Supi	ort. Iten	n No. 20	Į.	Global Po	ositionin	a Svster	n (GPS)	Advance
	-,	, .		, , , , , ,					Procuren		J - , - · ·	(/	
Weapon System GPS AP						First System				First System	Completion I	Date	
GPS AP					(\$ in	Millions)	Jar	1-96			Jar	n-01	
Description	PLT	When Rqd	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	<u>Total</u>
End Item Qty			61	0	0	0	0	(0	0	0	0	61
								•		•			
CFE													0.000
GFE													0.000
									<u>'</u>			1	
EOQ			972.822										972.822
Design													0.000
Term Liability		-		10.022	2 202	0.000							0.000
Long Lead Parts TOTAL AP			972.822	10.032 10.032	2.393 2.393	0.000							12.425 985.247
			912.622	10.032	2.393	0.000		<u> </u>			<u> </u>		963.247
<u>Description</u>													
No FY10 funding requested													n the
FY08 Omnibus. FY09 fund	ding will be t	ranferred in th	e execution	ı year. Start	ing in FY10), GPS III a	dvance proc	curement is	transferred t	to the GPS I	II PE, 03052	265F.	
				P-1 Sho	pping List	Item No. 2	20		Advanc	e Procure			
												Page 1 - F	
											Exhibit P-	10 p.1, pad	ie 2 of 3

Exhibit P-10 p.2, Adva (Page 2 - Budget Just		ment Req	uirements	Analysi	is							Date: M	ay 2009		
Appropriation (Treasury) Coo	de/CC/BA/BSA/Ite			rity 05,	Other S	Support	, Item	No. 20	ŀ				/stem (GPS) A	dvance
Weapon System															
GPS AP															
015711					(T	OA, \$ in N	Millions)								
					2008	2008		2009	2009		2010	2010		2011	2011
					Contract			Contract			Contract	I		Contract	
				2008	Forecast		2009	Forecast	Cost	2010	Forecast		2011	Forecast	
Description	<u>PLT</u>	<u>OPA</u>	Unit Cost		Date	Request	OTY	Date		OTY	Date	Request		Date	Request
End Item						10.032			2.400			0.000			
			•		•			•							
CFE															
GFE															
012							l								
EOQ	T		1		1							1			
Design			 		1										
Term Liability			+		1			+							
Long Lead Parts			 		1	10.032		+	2.393			0.000			
TOTAL AP			1			10.032		+	2.393			0.000		1	
TOTAL AF						10.032	<u> </u>	1	2.393	1		0.000			
Description															
No FY10 funding request	ed. All funding	in the line	will be repr	ogramme	ed. FY08 f	funding are	e transfer	red to the r	egular pro	curemen	t line for B	lock IIF i	n the FY0	8 Omnibu	S.
FY09 funding will be trar	-		-	_		_									
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					<u> </u>		N. 26								
				P-1	Shopping	List Item	No. 20			Adva	nce Proc			ements A	
														et Justific	
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Exhibit P-40, Budget Item Jus	tification								D	ate: May 2	009	
Appropriation (Treasury) Code/CC/BA/B	SA/Item Cont	rol Number						P-1 Line Iten	n Nomenclatu	re		
Missile Procurement, Air	Force, B	Budget Act	ivity 05,	Other Su	pport, Ite	em No. 2	21	NUDET	Detectio	n Systen	n (NDS)	
Program Element for Code B Items	:	N/A			Other Relat	ed Program	Elements:		PE 35913F	ı		
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A											0
Total Proc Cost (\$ M)		147.570	0.000	1.246	0.000							148.816

Description

This program has associated Research Development Test and Evaluation funding in PE 0305913F.

The Nuclear Detonation (NUDET) Detection System (NDS) provides a worldwide, highly survivable capability to detect, locate, and report any nuclear detonations in the earth's atmosphere or in near space in near-real time. The NDS supports NUDET detection requirements for United States Northern Command (USNORTHCOM)/North American Aerospace Defence Command (NORAD) (Integrated Tactical Warning and Attack Assessment (ITW/AA)), United States Strategic Command (USSTRATCOM) (Nuclear Force Management), and Air Force Technical Applications Center (AFTAC) (Treaty Monitoring). NDS consists of space and ground segments. The current space segment consists of NUDET detection sensors (optical, x-ray, dosimeters and electromagnetic pulse (EMP) sensor) on Global Positioning System (GPS) satellites and (optical, x-rays, and neutron and gamma rays) on Defense Support Program (DSP) satellites. The ground segment includes the Integrated Correlation and Display System (ICADS) and the Ground NDS Terminals (GNT).

SABRS is the future neutron/gamma sensor payload that will be hosted on a classified GEO satellite to replace the NDS sensor payload on DSP satellites. The GPS Space & Control PE (0305165F) funds sensor integration for Block IIF satellites and the GPS III Space Segment PE (0305265F) for GPS III satellites. DOE funds new NDS sensor research and production.

FY 2010 Program Justification

No FY10 funding is requested.

P-1 Shopping List Item No. 21

Budget Item Justification Exhibit P-40, page 1 of 2

Appropriation (Treasury) Code/CC/BA/BSA/Ite	Analysis									Date: N	1ay 2009)	
	em Control Number							P-1 Line	e Item Nomen	clature			
Missile Procurement, Air For	ce, Budget A	ctivity	, 05, Oth	er Supp	ort, Ite	em No. 2	1	NUD	ET Detec	tion Sy	stem (NDS)	
Manufacturer's Name/Plant City/State Lo	ocation			Subline Ite	m								
Classified)				N/A									
Weapon System	Ident					Total	Cost in Mil	lions of	Dollars				
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Co	st to Comple	ete
				Total			Total			Total			Total
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost
Hardware	A			0.000		+	1.246		1	0.000			0.000
TOTAL PROGRAM Comments							1.246		1				

Weapon System Cost Analysis Exhibit P-5, page 2 of 2

Exhibit P-40, Budget Item Jus	tification								D	ate: May 20	009	
Appropriation (Treasury) Code/CC/BA/E	SSA/Item Cont	rol Number						P-1 Line Iten	n Nomenclatu	re		
Missile Procurement, Air	Force, E	Budget Act	ivity 05,	Other Su	ipport, Ito	em No. 2	22	Defense (DMSP)	Meteoro	ological	Satellite F	Program
Program Element for Code B Items	S:	N/A			Other Relat	ed Program	Elements:		N/A			
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	45										45
Total Proc Cost (\$ M)		2489.074	115.839	97.791	97.764							2800.468

Description

The Defense Meteorological Satellite Program (DMSP) is a fully operational program supporting a broad range of national security users who require timely and accurate global weather information. DMSP is DoD's only assured source of global weather data providing visible and infrared cloud cover imagery (1/3 nautical miles (nm) constant resolution) and other meteorological, oceanographic, land surface, and space environmental data. At least two fully mission capable satellites (one in each of two orbit planes) are required in sun-synchronous, 450nm polar-orbit at all times (sun-synchronous means the satellites cross the equator at the same local sun time on each of their 14 orbits/day).

Premature attitude determination gyro failures on DMSPs F-15 (launched Dec 99) and F-16 (launched Oct 03) exposed a fleet-wide life-limiting problem with the attitude determination gyros that will fly on all remaining DMSP satellites. Mini-Inertial Measurement Units (MIMUs) are being integrated to the remaining DMSP satellites to reduce risk of mission failure due to those gyro problems. In addition, a number of systemic problems have also been identified with the new suite of microwave and ultraviolet sensors flying on this final block of DMSP satellites. These problems are being mitigated via sensor modifications and repairs for the satellites that remain to be launched. In addition, the program office is implementing a service life extension program on DMSPs F-19 and F-20 to increase projected lifetime from 4 to 5 years. DMSP F-18's launch has been delayed to the 4th Quarter FY09 on an Atlas V booster.

FY 2010 Program Justification

Funding continues to support spacecraft integration & test and sensors support & services contracts including:

- DMSP F-19 EELV mission unique support, integration, and test
- DMSP F-19 processing for 1st Quarter FY13 launch availability
- Spacecraft and sensor integration and test, engineering analysis, anomaly resolution, and related support activities for satellites in storage and on-orbit
- Independent Validation/Verification of DMSP flight software and anomaly support
- Analyze space environmental monitoring sensors capabilities
- Repair/replacement/testing of shelf life limited components including but not limited to pyrotechnics and spacecraft batteries
- Continue on-orbit calibration/validation of DMSP F-18 sensors
- Repairs to correct multiple spacecraft and sensors life and performance limiting deficiencies
- Program management support
- Perform Service Life Extension Program (SLEP) reliability improvements to DMSP F-19 and F-20

P-1 Shopping List Item No. 22

Budget Item Justification Exhibit P-40, page 1 of 3

Exhibit P-5, Weapon System Cost Analy	/sis									Date: N	/lay 2009	9	
Appropriation (Treasury) Code/CC/BA/BSA/Item Con Missile Procurement, Air Force, E	trol Number		/ 05, Oth	ner Sup	port, Ite	em No. 2	2		e Item Nomen nse Mete 6P)	clature			ogran
Manufacturer's Name/Plant City/State Location	n			Subline I	tem								
W 0	T					T . 1	G · · · · · · · · ·	111	D 11				
Weapon System Cost Elements	Ident		EV 2009		1		Cost in Mi	llions of			C		1-4-
Cost Elements	Code		FY 2008	Total		FY 2009	Total		FY 2010	Total	C	ost to Comp	Total
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost
LAUNCH & OPERATIONS	A												
VAFB Launch Base Support	A			2.092			0.332			2.014			
EELV Mission Unique Hardware	A			0.000	+		0.000		<u> </u>	1.400			
TOTAL LAUNCH & OPERATIONS				2.092	2		0.332			3.414			
SATELLITE READINESS	A												
LM Spacecraft Integration & TestCLIN 1	A			54.840	5		44.408			43.701			
LM Spacecraft Battery Option/SAFT CLIN 2	A			0.46			0.578			0.400			
LM Spacecraft Integ & TestTotal Awd Fee	A			6.073	В		6.099			5.122			
LM Spacecraft Orbital Incentives	A												
Independent Verif & Validation Tech Spt	A			1.14	5		1.246			1.303			
TOTAL SATELLITE READINESS				62.525	5		52.331			50.526			
SENSOR READINESS	A												
NGC Cons Sensor Factory & FieldCLIN 1	A			14.339			17.239			12.589			
NGC Hardware Sensor SptCLIN 2	A			13.183	3		2.000			2.721			
NGC Launch & Early Orbit SptCLIN 3	A			0.754			0.590						
NGC Total Award Fee	A			2.720	5		2.619			2.424			
NGC Orbital Incentives	A												
Sensor Lab Support	A			2.950)		4.799			7.263			
TOTAL SENSOR READINESS				33.952	2		27.247			24.997			
PROGRAM SUPPORT	A												
FFRDC (Tech)	A			12.150	5		12.458			12.832			
Program Management				5.114			5.423			5.995			
TOTAL PROGRAM SUPPORT				17.270			17.881			18.827			
TOTAL PROGRAM				115.839			97.791			97.764			
			-		•								

Exhibit P-5A, Procurement Hi	story	and Plann	ing							Date: May	2009			
Appropriation (Treasury) Code/CC/BA/E Missile Procurement, Air				/ 05, Oth	er Suppo	ort, Item N	o. 22				Satellite	Program		
Weapon System					Subline Ite	m								
DMSP														
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and	d Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revision Available		
Spacecraft Integration and Test	0		LAAFB, CA		SS	CPAF	Lockheed Mar Sunnyvale, Ca	ockheed Martin, Jul-02 N/A Yes Junnyvale, CA						
Consolidated Sensor Support & Services	0		LAAFB, CA		SS	CPAF	Northrop Grui Baltimore, MI		Nov-04	N/A	Yes			
Independent Flight Software Validation and Verification	0		LAAFB, CA		С	Other	Integral Syste Lanham, MD	ns,	Jun-02	N/A	Yes			
FFRDC (Tech)	0		LAAFB, CA		SS	Other	Aerospace Co Segundo, CA	rp, El	Oct-04	N/A	Yes			
SETA (Tech/Mgt/Fin)	0		LAAFB, CA		С	Various	Various		Jul-05	N/A	Yes			

P-1 Shopping List Item No. 22

Procurement History and Planning Exhibit P-5A, page 3 of 3

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Exhibit P-40, Budget Item Jus	tification									Date: May 2	009	
Appropriation (Treasury) Code/CC/BA/E	3SA/Item Con	trol Number						P-1 Line Iter	n Nomenclatu	ıre		
Missile Procurement, Air	r Force, E	3udget Act	ivity 05,	Other Su	ipport, It	em No. 2	23	Titan Sp	ace Boo	sters		
Program Element for Code B Items	s:	35144F			Other Relat	ed Program	n Elements:		None			
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	39										39
Cost (\$ M)		7295.122	0.010								0.000	7295.132
Advance Proc Cost (\$ M)		0.000										0.000
Weapon System Cost (\$ M)		7295.122	0.010	0.000	0.000							7295.132
Initial Spares (\$ M)		0.000										0.000
Total Proc Cost (\$ M)		7295.122	0.010	0.000	0.000							7295.132
Flyaway Unit Cost (\$ M)												
Wpn Sys Unit Cost (\$ M)												

Description

The Titan space launch program supported the national security requirement to accurately place critical satellites into planned orbits. Following the launch of the last USAF Titan vehicle (October 2005) and the arrival of heavy-lift Evolved Expendable Launch Vehicles, the Air Force Titan program is focusing on the extensive multiyear contract closeout activities, facility shutdown and restoration endeavors required to conclude the program.

At the start of FY04, the NRO assumed responsibility for the Titan launch operations contract, with the USAF providing funding to the NRO for a portion of the costs. The program completed the multiyear effort required to shutdown and close out the Titan contract and facilities.

FY 2010 Program Justification

N/A

P-1 Shopping List Item No. 23

Budget Item Justification Exhibit P-40, page 1 of 3

Exhibit P-5, Weapon System Cost <i>A</i>	Analysis									Date: N	May 200	9	
Appropriation (Treasury) Code/CC/BA/BSA/Iter	m Control Number							P-1 Lin	e Item Nomen	clature			
Missile Procurement, Air Ford	ce, Budget A	Activity	/ 05, Oth	er Supp	ort, Ite	em No. 2	3	Titar	Space E	Booster	S		
Manufacturer's Name/Plant City/State Lo	cation			Subline Ite	em								
Wasanan Cantana	Ident	_				Tatal	Cost in M	:11:	Dallana				
Weapon System Cost Elements	Code		FY 2008			FY 2009	Cost in M	linons of	FY 2010		C	ost to Compl	oto
Cost Elements	Code			Total			Total			Total			Total
		Qty	Unit Cost		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost
Other Government Costs	A			0.010									
TOTAL PROGRAM Comments				0.010									

Weapon System Cost Analysis Exhibit P-5, page 2 of 3

Exhibit P-5A, Procurement H	istorv	and Plann	ina		UNCLA				Γ	Date: May 2	2009	
Appropriation (Treasury) Code/CC/BA/								P-1 Line Ite	em Nomenclati			
Missile Procurement, Air				, 05. Oth	er Suppo	rt. Item No	o. 23		pace Boo			
Weapon System		<u> </u>	<u> </u>	,	Subline Iter		-					
TSB					N/A							
										Date of	Specs	Date
			Location of	RFP Issue	Contract	Contract				First	Available	Revision
WBS Cost Elements	Qty	Unit Cost	PCO	Date	Method	Туре	Contractor and	Location	Award Date	Delivery	Now?	Available?
<u>Remarks</u>												
Contract closeout was a fixed-pric	e effor	t performed	on the Titan V	ehicle Hard	ware Produc	tion Contract.	Facilities shutd	own was a	cost-plus ef	fort perform	ed on the Ti	tan
Vehicle Hardware Production Con	itract.	The last year	of funding or	n this contac	t was FY07.	Contract clos	seout and faciliti	es shutdow	n is complet	e.		
		•							•			
				P-1 Shop	ping List Ite	m No. 23			Proc	urement l	listory and	Planning
											bit P-5A, pa	

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Exhibit P-40, Budget Item Jus	tification								D	ate: May 2	009	
Appropriation (Treasury) Code/CC/BA/E	SSA/Item Con	trol Number						P-1 Line Iter	n Nomenclatu	re		
Missile Procurement, Air	Force, E	Budget Act	ivity 05,	Other Su	pport, Ite	em No. 2	24	Evolved	Expend	able Lau	nch Vehi	cle
								(EELV)	-			
Program Element for Code B Items	s:	N/A			Other Relat	ed Program	Elements:		0604853F	(RDT&E Al	. (F)	
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	15	4	2	5							26
Cost (\$ M)		3023.526	1091.844	1350.283	1295.325						TBD	TBD
Advance Proc Cost (\$ M)		0.000										0.000
Weapon System Cost (\$ M)		3023.526	1091.844	1350.283	1295.325						TBD	TBD
Initial Spares (\$ M)		0.000										0.000
Total Proc Cost (\$ M)		3023.526	1091.844	1350.283	1295.325						TBD	TBD
Flyaway Unit Cost (\$ M)												
Wpn Sys Unit Cost (\$ M)												

Description

This program does not require and does not include advance procurement or initial spares. Flyaway Unit Cost and Weapon System Unit Cost are not applicable due to the mix (medium through heavy) of vehicles in the program. EELV procures launch services, and is not a weapon system. The 'To Complete' cost value is a combination of the marginal prices on each of three different launch vehicle classes and fixed infrastructure payments for the remainder of the 150 currently manifested Air Force Missions through FY2030 (the AFSPC Routine Spacelift Enabling Concept (31 Oct 2007) formally extends the EELV Program an additional 10 years from 2020 through 2030). The 'To Complete' Cost will vary due to changing payload weight and volume, mission-unique services, launch delays and other variables.

DESCRIPTION: The Evolved Expendable Launch Vehicle (EELV) program is a space launch system developed in partnership with industry providing two families of launch vehicles (Delta IV & Atlas V). The program satisfies the government's National Launch Forecast (NLF) requirements and reduces the cost of space launch by at least 25% over legacy systems. The dual-use EELV system allows the government to procure the launch capability and services that deliver the NLF payloads to orbit and maintain the Nation's assured access to space.

The EELV system includes launch vehicles, launch capability, a standard payload interface, support systems, mission integration (includes mission unique requirements), flight instrumentation and range interfaces, special studies (mission feasibility analysis, secondary payloads, dual manifesting, dual integration, special flight instrumentation, loads analysis, etc.), post-flight data evaluation and analysis, mission assurance, assured access (infrastructure, critical component engineering, etc.), government mission director, system/process and reliability improvements, training, and technical support. The system also includes launch site/operations activities, activities in support of assured access, systems integration and tests, and other related support activities.

EELV is responsible for launching government manifested payloads, including those once supported by Titan II, Delta II, Atlas II/III, and Titan IV. EELV supports military, intelligence, civil, and commercial mission requirements. The first Atlas V was launched on 21 Aug 02 with a commercial satellite. The first Delta IV was launched on 20 Nov 02 with a commercial satellite. Air Force Space Command declared Full Operational Capability for the EELV system on 12 Dec 06.

The EELV concept of launch vehicle families emphasizes commonality of hardware and infrastructure and economies of scale to enhance production, operations, and support

P-1 Shopping List Item No. 24

Budget Item Justification Exhibit P-40, page 1 of 10

Exhibit P-40, Budget Item Justification	Date: May 2009
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number	P-1 Line Item Nomenclature
Missile Procurement, Air Force, Budget Activity 05, Other Support, Item No. 24	Evolved Expendable Launch Vehicle
	(EELV)

Description Continued

efficiencies. This allows the Air Force, National Reconnaissance Office (NRO), and all other government agencies using EELV to continue to realize cost savings goals during each follow-on procurement. The Air Force is responsible for funding its own missions. All non-Air Force EELV launch services are funded within their respective agencies (e.g. NRO, Navy, etc.).

EELV launch services include all of the necessary vehicle hardware, related touch labor and software. EELV Launch Capability includes facilities and facility support, mission unique and recurring integration, and all launch operations required for launch. Any non-recurring integration is the responsibility of the particular Air Force or other agency payload program office. To reduce risk, EELV launch services will be ordered No-Later-Than 24 calendar months prior to the planned mission. EELV launch services may be ordered earlier than the standard 24 calendar months to allow a longer integration period for first-time or complex integrations.

In 1998, the government awarded two Initial Launch Services (ILS) contracts to The Boeing Company (TBC) and Lockheed Martin (LM) for launches scheduled between FY02 and FY06. All of the ILS (Buy 1/awarded) launch services are firm-fixed price contracts. Due to the decrease in the commercial market, the projected costs of the unawarded EELV launches have increased. The new acquisition strategy, implemented in FY06, separates the launch service price from the infrastructure costs. Follow-on (Buy 3) Launch Service procurements include launch service costs on a fixed-price contract. EELV Launch Capability costs, including infrastructure costs, launch and range operations, mission integration, mission unique development and integration, subcontract support engineering, factory engineering, etc., are funded on an annual basis. The 2005 Space System Acquisition Strategy for EELV documents this modified approach to provide assured access to space with two viable launch vehicle families. The acquisition approach supports the 2004 National Space Transportation Policy, caps the government's development costs, and allows partnership with industry, while still reducing the program's overall cost to launch the NLF by at least 25% over legacy systems.

In December 2006, TBC and LM initiated a joint venture, the United Launch Alliance (ULA), with the approval of the Federal Trade Commission. ULA will continue mission success and assure access to space with two launch vehicle systems by combining Delta IV/Atlas V management and engineering in Denver, CO; combining most of the manufacturing in Decatur, AL; and combining launch teams at both launch sites. Existing contracts were novated to ULA in November 2008, making ULA responsible for contract performance vice Boeing and Lockheed Martin.

As of 21 Aug 2007, the EELV Program has formally entered the sustainment phase.

As of 31 Oct 2007, Air Force Space Command formally extended the EELV Program an additional 10 years from 2020 through 2030.

FY 2010 Program Justification

EELV FY 2010 procurement funds are required for annual launch capability tasks to include systems engineering, program management, infrastructure, systems integration and tests, launch site and launch operations activities, post mission analysis, and other related activities to support mission requirements, to include mission assurance for 12 previously procured AF missions working toward launch. Funds are also required to procure five launch services (two intermediate launch vehicles and three medium launch vehicles) to be completed as early as FY 2012.

P-1 Shopping List Item No. 24

Budget Item Justification Exhibit P-40, page 2 of 10

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Exhibit P-5, Weapon System Cost Analy	sis				Date: N	May 2009)						
Appropriation (Treasury) Code/CC/BA/BSA/Item Cont Missile Procurement, Air Force, B			05, Oth	ner Supp	ort, Ite	m No. 2	4		•		Launc	h Vehicl	е
Manufacturer's Name/Plant City/State Location	l			Subline Ite	em								
United Launch Alliance/Littleton/Colorado													
Weapon System	Ident					Total	Cost in Mi	llions of I	Oollars				
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Co	st to Comp	lete
				Total			Total			Total			Total
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost
Launch Services		4		293.223	2		215.903	5		471.412			
Program Management & Other Support Costs				7.897			11.071			10.000			
SETA*				18.439			19.106			19.825			
FFRDC Mission Assurance				48.080			50.479			52.900			
Assured Access				40.000			40.000			0.000			
Launch Capability				684.205			1013.724			741.188			
TOTAL PROGRAM				1091.844			1350.283			1295.325			

P-1 Shopping List Item No. 24

Weapon System Cost Analysis Exhibit P-5, page 4 of 10

Exhibit P-5A, Procurement Hi	story	and Plann	ing						D	ate: May 2	2009	
Appropriation (Treasury) Code/CC/BA/I Missile Procurement, Air				05, Othe	er Suppo	rt, Item N	o. 24		m Nomenclatu d Expend		ınch Veh	icle
Weapon System					Subline Ite	m	-					
EELV												
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and	Location		Date of First Delivery	Specs Available Now?	Date Revision Available?
EELV FY08/09/10 National Launch Capability	Y		SMC	Feb-07	SS	CPAF	United Launch (ULA), CO	Alliance	Oct-07	Oct-07		
Launch Services FY08	4		SMC	Oct-07	SS	FFP	United Launch (ULA), CO	Alliance	Oct-07	Oct-09	Yes	
Launch Services FY09	2		SMC	Aug-08	SS	FFP	United Launch (ULA), CO	Alliance	Oct-08	Oct-10	Yes	
Launch Services FY10	5		SMC	Aug-09	SS	FFP	United Launch (ULA), CO	Alliance	Oct-09	Oct-11	Yes	
Remarks												

Award Date and Date of First Delivery represent Calendar Years (CY).

All existing contracts with Boeing and Lockheed Martin were novated to United Launch Alliance (ULA) in November 2008. Future contracts will be made directly with ULA.

All launches will be ordered at least 24 months prior to the scheduled launch.

Contract award date for all Initial Launch Services (ILS) missions was October 98.

Launch Service unit costs are not applicable for this program due to the mix (medium through heavy) of vehicles in the program. Launch service costs are competition sensitive and are available on a need-to-know basis from the Air Force.

P-1 Shopping List Item No. 24

Procurement History and Planning Exhibit P-5A, page 5 of 10

Exhibit P-21, Production Schedule				Date: I	May 2009
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number				P-1 Line Item Nomenclature	
Missile Procurement, Air Force, Budget Ac	ivity 05, Other S	upport, Item		Evolved Expendable (EELV)	Launch Vehicle
S ACCEP BALANC		ISCAL YEAR 2004		FISCAL YEA	
PROCUREMENT YEAR E PROC PRIOR TO AS OF AS OF TO AS OF TO 1 OCT 1 OCT 2003	O N D J F C O E A E T V C N B	M A M		CALI O N D J F M A C O E A E A I T V C N B R	ENDAR YEAR 2005 A A M J J A S T P A U U U E E R Y N L G P R
2004 USAF 4 0	C	C	C	4	
2005 USAF 2 0			C	2	
2006 USAF 1 0		 	- 		1
2007 USAF 3 0 2008 USAF 4 0	 	 	- 	 	
2008 USAF 4 0 2009 USAF 2 0	 	+ + + +	- 	 	
2010 USAF 5 0		 		1 1 1 1 1	
TOTAL 21 0 2	0	0		0 0	21
	O N D J F C O E A E T V C N B	M A M A P A R R Y		O N D J F M A C O E A E A F T V C N B R F	A M J J A S P A U U U E R Y N L G P
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ULA	1-8-5		PRIOR AFTER 1 OCT 1 OCT	TIME 1 OCT	
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REMARKS		•			
KEY: Number in column represents quantity and C represents award					Į.

E1. Number in column represents quantity and C represents award

P-1 Shopping List Item No. 24

Production Schedule Exhibit P-21, page 6 of 10

Exhibit P-21, Production	n Sched	dule																				Date	e: Ma	y 20	09				
Appropriation (Treasury) Code/0	CC/BA/BS	SA/Item C	ontrol Nu	mber													P-	1 Line	e Item	Nom	encla	ture							
Missile Procuremen	t, Air	Force,	, Budg	jet Act	ivit	y 05	5, O 1	ther	[·] Su	ppo	ort,	lten	n No	o. 2	4			vol ^v		Ex	pen	dak	le L	.auı	nch	Ve	hicle	е	
	s			BALANCE					FIS	CAL Y	EAR 2										FIS		EAR 2						L
PROCUREMENT YEAR	E R V	PROC QTY	PRIOR TO 1 OCT 2005	DUE AS OF 1 OCT 2005	O C T	2005 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	R 2006 A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	ALENI A P R	DAR Y M A Y	EAR 20 J U N	007 J U L	A U G	S E P	A T E R
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	USAF USAF	3	0	3																			 						1
	USAF	2	0	2																							\vdash		2
	USAF	5	0	5																							\Box		5
TOTAL		21	0	21		0												0			0	1					0		20
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ITEM/MANUFACTURER'S NAME		LOCATION	N	MIN SUST	SHIF HOU DAYS	RS	M A X								MIN TIME			MFG TIME			TOTAL AFTEF								
ULA					1-8-5											TIIVIE			1 OCT										
								INITI/											24			24	1						
REMARKS				I				INLOR	IDLI																				
Key: Number in column represents quan	tity and C r	epresents av	vard																										

P-1 Shopping List Item No. 24

Production Schedule Exhibit P-21, page 7 of 10

Exhibit P-21, Production	n Sche	dule																				Date	e: Ma	ay 20	009				
Appropriation (Treasury) Code/0	CC/BA/BS	SA/Item C	ontrol Nu	mber													P-	-1 Line	e Item	Nom	nencla	ture							
Missile Procuremen	t, Air	Force	, Budg	jet Act	ivit	y 05	5, O	the	r Su	ppo	ort,	lten	n No	o. 2	4			vol [•]		Ex	pen	dak	ole I	Lau	nch	Ve	hicl	е	
	S		ACCEP	BALANCE					FIS	CAL Y	YEAR 2										FIS	SCAL Y							L
PROCUREMENT YEAR	E R V	PROC QTY	PRIOR TO 1 OCT	AS OF 1 OCT	O C	2007 N O	D E	J A	F E	M A	A P	M A	J U	J U	R 2008 A U	S E	O C	N O	D E	J A	F E	M A	ALEN A P	M A	EAR 2 J U	009 J U	A U	S E	A T E
2004	2007 2007 T V C N B R R Y N L G P T 2004 USAF 4 1 3														T	V	С	N	В	R 1	R 	Y	N	1	G	P	R		
	2005 USAF 2 0 2																				1	<u> </u>			1	1		1	
	2006 USAF 1 0 1																							1			0		
	USAF	3	0	3																									3
2008	USAF	4	0	4								C				C													4
	USAF	2	0	2													C				C								2
	USAF	5	0	5			ļ											C			C						<u></u>		5
TOTAL		21	1	20								0				0	0	0			0	1	1			2	1		15
					O C T	N O V	E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	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	A U G	S E P	
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ITEM/MANUFACTURER'S NAME		LOCATIO	N.	MIN SUST	SHIF HOU DAYS	RS	M A Y								MIN TIME			MFG			TOTAI AFTEI								
ULA		LOCATIO			1-8-5												TIME			1 OCT									
						INITIAL REORDER													24			24	ł						
REMARKS								INLO	/DLI																				\neg
Key: Number in column represents quar	ntity and C	represents av	vard																										

P-1 Shopping List Item No. 24

Production Schedule Exhibit P-21, page 8 of 10

Exhibit P-21, Production Sche	dule																				Date	e: Ma	ay 20	009				
Appropriation (Treasury) Code/CC/BA/B	SA/Item C	Control Nu	mber													P-	1 Line	e Item	Nom	encla	ture							
Missile Procurement, Air	Force	, Budg	get Ac	tivit	y 05	5, O	the	r Su	ppo	ort,	lten	n No	o. 2	4			vol		Ex	pen	dab	le L	_auı	nch	Ve	hicl	е	
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PROCUREMENT YEAR E R V	PROC QTY	PRIOR TO 1 OCT 2009	DUE AS OF 1 OCT 2009	O C T	2009 N O V	D E C	J A N	F E B	M A R	A P R	M A Y	ENDAI J U N	YEA J U L	R 2010 A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	ALENI A P R	DAR Y M A Y	EAR 2 J U N	011 J U L	A U G	S E P	A T E R
2005 USAF	2	2 1																							0			
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			PRODUC	TION I	RATES	3						PRO	CURE	MENT	LEAD	TIME												
ITEM/MANUFACTURER'S NAME	MIN SUST	SHIF HOU DAYS	RS	M A X								MIN TIME			MFG TIME			TOTAI AFTEI										
ULA				1-8-5	-8-5 PRIOR 1 OCT									AF1 1 C	ΓER OCT		IIIVIE			1 OCT								
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REMARKS			1				INEOI	NDEK						I														
Key: Number in column represents quantity and C	represents a	ward																										

P-1 Shopping List Item No. 24

Production Schedule Exhibit P-21, page 9 of 10

Ex	hibit P-21, Productio	n Sche	dule																				Date	e: Ma	ay 20	009				
Арр	propriation (Treasury) Code	/CC/BA/B	SA/Item C	Control Nu	ımber													P-	-1 Lin	e Item	Nom	encla	ture							
Mi	ssile Procureme	nt, Air	Force	, Budg	get Act	ivit	y 05	5, O	ther	r Su	ppo	ort,	Iten	n No	o. 2	4			vol [°] EEL		Ex	pen	dab	le L	_auı	nch	Ve	hicl	е	
		S		ACCEP	BALANCE		2011			FIS	CAL Y	EAR :		ENID A I	N SZE A I	0.2012						FIS		EAR		EAD 2	012			L
	PROCUREMENT YEAR	E R V	PROC QTY	PRIOR TO 1 OCT 2011	AS OF 1 OCT 2011	O C T	2011 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	ALENI A P R	M A Y	EAR 2 J U N	J U L	A U G	S E P	T E R
	2010	USAF	5	5 () 5	3	1					1																		0
TOT	AL		5	5	3	1					1																		0	
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					PRODUC	TION I	RATES	3						PRO	CURF	MENT	ΙΕΑΓ	TIME	:					- '`					•	
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REM	MARKS		•	•					· ·			Ţ	Ť	Ţ.	Ť	Ť	Ţ			Ť					Ť		Ť			
Key:	Number in column represents qua	antity and C	represents a	ward																										

P-1 Shopping List Item No. 24

Production Schedule Exhibit P-21, page 10 of 10

Exhibit P-40, Budget Item Ju	stification									Date: May 2	:009	
Appropriation (Treasury) Code/CC/BA	/BSA/Item Cor	trol Number						P-1 Line Iter	m Nomenclati	ure		
Missile Procurement, A	ir Force, I	Budget Act	ivity 05,	Other Su	ipport, It	em No. 2	25	Medium	Launch	Vehicles	s (MLV)	
Program Element for Code B Iter	ns:	35119F			Other Relat	ted Progran	n Elements:		None			
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	58									0	58
Cost (\$ M)		2629.541	116.944	5.739							0.000	2752.224
Advance Proc Cost (\$ M)		189.198									0.000	189.198
Weapon System Cost (\$ M)		2818.739	116.944	5.739	0.000							2941.422
Initial Spares (\$ M)												
Total Proc Cost (\$ M)		2818.739	116.944	5.739	0.000							2941.422
Flyaway Unit Cost (\$ M)												
Wpn Sys Unit Cost (\$ M)												

Description

The Medium Launch Vehicle (MLV) procurement line supported two expendable launch vehicle programs, MLV II (Atlas II/III) and MLV III (Delta II). MLV II (Atlas II/III) program closeout was completed in FY05. Only the MLV III (Delta II) program remains active.

The MLV program includes all tasks necessary to support, manage, and launch Air Force and National Reconnaissance Organization (NRO) satellites. Costs include, but are not limited to: contracts for hardware procurement and launch operations, storage, mission success incentives and award fee, program office support, systems engineering and technical assistance, systems integration, government furnished support equipment and facilities, propellants, transportation, spare parts, special studies, test studies and related support activities; and engineering change orders to maintain vehicle/pad/range compatibility, safety, and reliability, as well as adjusting contracts to match changing schedule requirements.

FY 2010 Program Justification

N/A

P-1 Shopping List Item No. 25

Budget Item Justification Exhibit P-40, page 1 of 4

Exhibit P-40A, Budget Item Justification	on for Ago	regated It	ems						Date	e: May 200)9	
Appropriation (Treasury) Code/CC/BA/BSA/Item C	ontrol Number	ər					P-1	1 Line Item No	omenclature			
Missile Procurement, Air Force,	, Budget	Activity	05, Othe	er Suppo	ort, Item	No. 25	M	edium L	aunch V	ehicles ((MLV)	
		<u>Prior</u>										
Procurement Items (\$M)	ID Code	Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	<u>Total</u>
Medium Launch Vehicle II (Atlas IIA)	A	551.897									0.000	551.897
Medium Launch Vehicle III (Delta II)	A	2077.644	116.944	5.739							0.000	2200.327
Less Adv Proc (Prior Year)	A	189.198	0.000	0.000							0.000	189.198
Plus Adv Proc (Current Year)	A											
Total MLV III (Delta II)	A	2266.842	116.944	5.739							0.000	2389.525
Quantity (Atlas and Delta)	A	58.000							j		0.000	58.000
Total Adjustments	j	2818.739	116.944	5.739	0.000				j			2941.422
Quantity Total		0	0	0	0							

Remarks

P-1 Shopping List Item No. 25

Budget Item Justification for Aggregated Items
Exhibit P-40A, page 2 of 4

Exhibit P-5, Weapon System Cost Analy	sis .									Date: N	/lay 2009)	
Appropriation (Treasury) Code/CC/BA/BSA/Item Conf	trol Number							P-1 Line	Item Nomen	clature			
Missile Procurement, Air Force, E	Budget A	Activity	/ 05, Oth	er Supp	ort, Ite	m No. 2	5	Mediu	ım Laur	nch Veh	icles (N	/ILV)	
Manufacturer's Name/Plant City/State Location	1			Subline Ite	em								
United Launch Alliance/Decatur/Alabama				Medium L	aunch Ve	hicle III (D	elta II)						
Weapon System	Ident					Total	Cost in Mi	llions of I	Oollars				
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Co	st to Comp	lete
				Total			Total			Total			Total
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost
Delta II Launch Services				92.185			4.445			0.000			0.000
FFRDC Technical Support				20.768			0.000			0.000			0.000
Program Support *				3.991			1.294			0.000			0.000
TOTAL PROGRAM				116.944			5.739						

Comments

This P-5 is for the MLV III (Delta II) only. Contract closeout and shutdown activities are planned to start following the last flight of Air Force Delta II.

*FY08: Program Management & Other Support (\$0.568M); SETA (Program Office) (\$1.981M); Technical Support (Systems Engineering and Integration) (\$1.442M); Total (\$3.991M)

*FY09: Program Management & Other Support (\$0.190M); SETA (Program Office) (\$0.000M); Technical Support (Systems Engineering and Integration)(\$1.104M); Total (\$1.294M)

P-1 Shopping List Item No. 25

Weapon System Cost Analysis Exhibit P-5, page 4 of 4

Exhibit P-40, Budget Item Jus	stification					ate: May 2	:009					
Appropriation (Treasury) Code/CC/BA/	BSA/Item Con	trol Number						P-1 Line Iter	m Nomenclatu	ıre		
Missile Procurement, Ai	r Force, E	Budget Act	tivity 05,	Other Su	ipport, It	em No. 2	26	Space-I High	Based Inf	fra-Red S	System (S	SBIRS)
Program Element for Code B Item	ıs:	N/A			Other Relat	ed Program	Elements:		PE 060444	1F		
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A	0		2	1							3
Cost (\$ M)		0.000		1659.135	307.456							1966.591
Advance Proc Cost (\$ M)		0.000	395.310	53.841	159.000							608.151
Weapon System Cost (\$ M)		0.000	395.310	1712.976	466.456							2574.742
Initial Spares (\$ M)		0.000										0.000
Total Proc Cost (\$ M)		0.000	395.310	1712.976	466.456							2574.742
Flyaway Unit Cost (\$ M)												
Wpn Sys Unit Cost (\$ M)												

Description

This program has associated Research Development Test and Evaluation funding in PE 0604441F.

The Space-Based Infrared System's (SBIRS) primary mission is to provide initial warning of a ballistic missile attack on the US, its deployed forces and its allies. SBIRS will incorporate new technologies to enhance detection and improve reporting of intercontinental ballistic missiles, submarine launched ballistic missiles, and tactical ballistic missiles. SBIRS provides increased detection & tracking performance in order to meet requirements in US Space Command's Capstone Requirements Document and Operational Requirements Document (ORD). SBIRS will consist of satellites in Geosynchronous Earth Orbit (GEO) and payloads in Highly Elliptical Orbit (HEO) with an integrated centralized ground station serving all SBIRS space elements, Defense Support Program (DSP) satellites and other program related support activities. The HEO payloads operate on a classified host.

SBIRS GEO-3 and 4 satellites are derivatives of the first two GEO satellites which will be delivered on the SBIRS Engineering and Manufacturing Development (EMD) contract using RDT&E funds. The GEO-3 and 4 satellite production efforts are necessary to meet constellation requirements. The Acquisition Decision Memorandum (ADM) signed 1 Dec 2008 approved the acquisition of the GEO-3 & 4 satellites and the HEO-3 and 4 payloads using a Cost-Plus contract.

SBIRS HEO-3 and 4 payloads are replenishments for HEO-1 and 2 payloads, which were delivered on the SBIRS Engineering and Manufacturing Development (EMD) contract using RDT&E funds. The HEO-1 payload is accepted and certified for Integrated Tactical Warning/Attack Assessment (ITW/AA) missile warning operations. The HEO-2 payload is in orbit and is conducting on-orbit checkout and testing. HEO-2 is scheduled for certification and subsequent operations in late summer 2009.

FY 2010 Program Justification

Funds procurement of the HEO-4 payload. Funds Host vehicle integration costs for the HEO-4 payload. Funds continued advance procurement for the GEO-4 satellite. Continue Program Office and related support activities, such as, but not limited to, Systems Engineering and Integration.

P-1 Shopping List Item No. 26

Budget Item Justification Exhibit P-40, page 1 of 11

Exhibit P-40A, Budget Item Jus	stification for Agg	regated It	tems						Date	e: May 200)9	
Appropriation (Treasury) Code/CC/BA/BS	A/Item Control Number	ſ					F	P-1 Line Item N	omenclature			
Missile Procurement, Air I	Force, Budget	Activity	05, Oth	er Suppo	ort, Item	No. 26		Space-Ba High	sed Infra	a-Red Sy	stem (S	BIRS)
· ·		<u>Prior</u>								·		
Procurement Items (\$M)	<u>ID Code</u>	FY 201	2 FY 2013	FY 2014	FY 2015	To Comp	<u>Total</u>					
GEO 3 satellite	A	0.000	271.104	1332.302	13.616							1617.022
Quantity	A	0		1								1
GEO 4 satellite	A	0.000			159.000							159.000
Quantity	A	0										0
HEO 3 payload	A	0.000	124.206	326.833	7.585							458.624
Quantity	A	0		1								1
HEO 4 payload	A	0.000		53.841	286.255							340.096
Quantity	A	0			1							1
Total Adjustments		0.000	395.310	1712.976	466.456							2574.742
Quantity Total		0	0	2	1							3

Remarks

The Acquisition Decision Memorandum (ADM) signed 1 Dec 2008 approved the acquisition of the GEO-3 & 4 satellites and the HEO-3 and 4 payloads using a Cost Plus contract. FY09 \$120M ATR received for advance procurement of the GEO-4 satellite, funding not reflected in ABIDES. The program is funded to the OSD CAIG estimate.

P-1 Shopping List Item No. 26

Budget Item Justification for Aggregated Items Exhibit P-40A, page 2 of 11

Exhibit P-5A, Procureme	nt History	and Plann	ing						[Date: May 2	2009	
Appropriation (Treasury) Code/C0	C/BA/BSA/Ite	em Control Nun	nber					P-1 Line Ite	m Nomenclat	ure		
Missile Procurement	, Air For	ce, Budg	et Activity	/ 05, Othe	er Suppo	ort, Item N	o. 26	Space- High	Based In	fra-Red S	System (SBIRS)
Weapon System					Subline Ite	m						
SBR H												
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and	l Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revision Available?
GEO 3 Satellite	1	1617.022	SMC, LA AFB, El Segundo, CA	Jul-07	SS	СР	Lockheed Mar Systems, Sunn	-	Mar-08	Aug-14	Yes	
GEO 4 Satellite	1	159.000	SMC, LA AFB, El Segundo, CA	Jul-07	SS	CPAF	Lockheed Mar Systems, Sunr	-	May-09	Sep-15	Yes	
HEO 3 Payload	1	458.624	SMC, LA AFB, El Segundo, CA	Jul-07	SS	СР	Lockheed Mar Systems, Sunn	-	Mar-08	Sep-12	Yes	
HEO 4 Payload	1	340.097	SMC, LA AFB, El Segundo, CA	Jul-07	SS	СР	Lockheed Mar Systems, Sunn	-	May-09	Nov-14	Yes	

Remarks

Advance procurement and procurement contract actions are intended for a sole source Lockheed Martin contract for SBIRS GEO-3 & 4 satellites and SBIRS HEO-3 & 4 payloads. Unit cost reflects FY08-FY10 funding only.

P-1 Shopping List Item No. 26

Procurement History and Planning Exhibit P-5A, page 3 of 11

Ex	hibit P-21, Production	n Sche	dule																				Date	e: Ma	ay 20	009				
App	propriation (Treasury) Code	/CC/BA/B	SA/Item C	Control Nu	mber													P.	-1 Line	e Item	Nom	encla	ture							
Mi	issile Procureme	nt, Air	Force	, Budg	jet Act	ivit	y 05	i, O	ther	S u	ppc	rt,	Iten	n No	0. 2	6			pac ligh		ase	ed Ir	nfra	-Re	d S	yste	∍m ((SB	IRS)
		S		ACCEP	BALANCI					FIS	CAL Y	EAR										FIS		EAR 2						L
	PROCUREMENT YEAR	E R V	PROC QTY	PRIOR TO 1 OCT 2007	DUE AS OF 1 OCT 2007	O C T	2007 N O V	D E C	J A N	F E B	M A R	A P R	M A Y	ENDAI J U N	R YEA J U L	R 2008 A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	ALENI A P R	DAR Y M A Y	EAR 2 J U N	009 U L	A U G	S E P	A T E R
	2009	USAF	1	0	1						Awar d																			1
TOT	ΓAL		1	0	1						0																			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	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	N U	J U L	A U G	S E P	
					PRODUC	TION I	RATES	}						PRO	CURE	MENT	LEAD	TIME												,
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	O 3 & 4 Satellites / Lockheed Mart ems (LSSC)	in Space	Sunnyvale,	CA											IOR OCT	AF1 1 C	TER OCT		TIME			1 OCT								
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REN	MARKS																													
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SBIRS GEO-3 scheduled for delivery in August 2014 SBIRS GEO-4 is scheduled for delivery in Jun 2016

P-1 Shopping List Item No. 26

Production Schedule Exhibit P-21, page 4 of 11

Exhibit P-21, Production Sche	dule																				Date	: Ma	ay 20	009				
Appropriation (Treasury) Code/CC/BA/B	SA/Item C	ontrol Nu	mber													P-	1 Line	e Item	Nom	encla	ture							
Missile Procurement, Air	Force,	, Budg	jet Act	tivit	y 05	5, O	ther	· Su	ppo	ort,	Iten	n No). 2	6			pac igh	e-B	ase	d Ir	nfra-	-Re	d S	yste	em	(SB	IRS	;)
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F	PROC	PRIOR	DUE		2009	_		-				ENDAI	YEA	R 2010			.,	_				LENI	DAR Y	EAR 2	011 •			A
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TEM/MANUFACTURER'S NAME	LOCATION	N		DAYS		X											MFG			OTAL								
GEO 3 & 4 Satellites / Lockheed Martin Space systems (LSSC)	Sunnyvale,	CA										PRI 1 C		AF1 1 C	TER OCT		TIME			AFTEF I OCT								
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P-1 Shopping List Item No. 26

Production Schedule Exhibit P-21, page 5 of 11

Exh	nibit P-21, Productio	n Sche	dule																				Date	e: Ma	ay 20	009				
Appr	ropriation (Treasury) Code	/CC/BA/B	SA/Item C	Control Nu	mber													P-	-1 Line	e Item	Nom	nencla	ature							
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		S		ACCEP	BALANCI	-	2011			FIS	CAL Y	EAR 2		EN 10 1 1		D 2012						FIS	SCAL Y			E + D 0	010			L
	PROCUREMENT YEAR	E R V	PROC QTY	PRIOR TO 1 OCT 2011	AS OF 1 OCT 2011	O C T	2011 N O V	D E	J A N	F E B	M A R	A P R	M A Y	J U N	J U	R 2012 A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	ALEN A P R	M A Y	EAR 2 J U N	J U	A U G	S E P	T E R
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					PRODUC	TION	RATES	3						PRO	CURE	MENT	LEAD	TIME						<u> </u>						
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GEO	I/MANUFACTURER'S NAME 3 & 4 Satellites / Lockheed Martims (LSSC)	in Space	Sunnyvale,			DAYS		_						PR 1 C			TER		MFG TIME			AFTEI 1 OCT								
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P-1 Shopping List Item No. 26

Production Schedule Exhibit P-21, page 6 of 11

Exhibit P-21, Production Sche	edule																				Date	: Ma	ay 20	009				
Appropriation (Treasury) Code/CC/BA/	BSA/Item C	Control Nu	mber													P-	1 Line	e Item	Nom	encla	ture							
Missile Procurement, Air	Force	, Budg	get Act	tivit	y 05	5, O	the	^r Su	ppo	ort,	Iten	n No	o. 2	6			pac igh	e-B	ase	ed li	nfra	-Re	d S	yste	em	(SB	IRS	;)
S		ACCEP	BALANCI					FIS	CAL Y	YEAR:										FIS	CAL Y							L
F	PROC	PRIOR	DUE		2013					_		ENDAI	R YEA	R 2014		_						LENI	DAR Y	EAR 2	2015	_		A
PROCUREMENT YEAR R	QTY	TO	AS OF	0	N	D	J	F	M	A	M	J	J	A	S	0	N	D	J	F	M	A	M	J	J	A	S	T
V		1 OCT 2013	1 OCT 2013	C	O	E	A	E B	A	l P	A	U	U	U	E	C	0	E	A	E	A	P	A	U	l u		E D	l E
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			PRODUC	TION	RATES	3	<u> </u>					PRO	CURE	MENT	LEAD	TIME	V					- 11						
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TEM/MANUFACTURER'S NAME	LOCATIO			DAYS	<u>S</u>	Х	l										MFG			AFTER								
GEO 3 & 4 Satellites / Lockheed Martin Space	Sunnyvale	, CA										PR		I	TER		TIME			1 OCT	-							
Systems (LSSC)	+		├──	\vdash		\vdash	ł					1 C	CI	1 C	CI													
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Production Schedule Exhibit P-21, page 7 of 11

Ex	hibit P-21, Productio	n Sche	dule																				Date	e: Ma	ay 20	009				
App	propriation (Treasury) Code	/CC/BA/B	SA/Item C	Control Nu	mber													P-	-1 Line	e Item	n Nom	encla	ture							
Mi	ssile Procureme	nt, Air	Force	, Budg	jet Act	iivit	y 05	i, O1	ther	· Su	ppc	ort,	Iten	n No	o. 2	6			pac ligh		ase	ed Ir	าfra	-Re	d S	yste	∍m ((SB	IRS)
		S			BALANCI	-			_	FIS	SCAL Y	EAR									\equiv	FIS	SCAL Y							L
	PROCUREMENT YEAR	E R V	PROC QTY	PRIOR TO 1 OCT 2007	DUE AS OF 1 OCT 2007	O C T	2007 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	ALENI A P R	M A Y	YEAR 20 J U N	009 J U L	A U G	S E P	A T E R
	2009	USAF	1	0	1						Awar d																			1
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					PRODUC			;						PRO		MENT	LEAD	TIME												
ITEN	M/MANUFACTURER'S NAME		LOCATIO	N.	MIN SUST	SHIF HOUI DAYS	RS	M A X								MIN TIME			MFG			TOTAL	_							
HEO	0 3 &4 Payloads / Lockheed Mart ems (LSSC)		Sunnyvale,	, CA										PRI 1 C		AF 1 C	TER OCT		TIME			AFTEF 1 OCT								
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REN	MARKS				ь				REOF	KDEK											ь—									
	RS HEO-3 is scheduled for deliver	ry in Sep 201	12 SBIRS F	IEO-4 is sch	eduled for d	elivery	in Nov	2014																						
		.,,																												

P-1 Shopping List Item No. 26

Production Schedule Exhibit P-21, page 8 of 11

Exhibit P-21, Production	n Sche	dule																				Date	e: Ma	ay 20	009				
ppropriation (Treasury) Code	/CC/BA/B	SA/Item C	Control Nu	ımber													P-	-1 Line	e Item	n Nom	encla	ature							
Missile Procureme	nt, Air	Force	, Budg	get Ac	tivit	y 05	5, O	the	r Su	ppo	ort,	lter	n No	o. 2	6			pac ligh	e-B	Base	d lı	nfra	-Re	d S	yste	em	(SB	IRS	i)
	S		ACCEP	BALANC	В				FIS	CAL Y	YEAR	2010									FIS	SCAL Y	EAR :	2011					L
	E	PROC	PRIOR	DUE		2009							ENDA	R YEA	R 2010)	1	1				C.	ALENI		EAR 2	011			A
PROCUREMENT YEAR	R V	QTY	TO 1 OCT 2009	AS OF 1 OCT 2009	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	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	U L	A U G	S E P	E R
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2010	USAF	1	()	l l																								
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TEM/MANUFACTURER'S NAME		LOCATIO	N	MIN SUST	SHIF HOU DAYS	RS	M A X								MIN TIME			MFG			TOTA								
IEO 3 &4 Payloads / Lockheed Mart ystems (LSSC)		Sunnyvale,			D/(I)								PR 1 C		AF 1 C	TER OCT		TIME			AFTEI 1 OCT								
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REMARKS				<u>I</u>				KEUI	IDEK																				

P-1 Shopping List Item No. 26

Production Schedule Exhibit P-21, page 9 of 11

Exhibit P-21, Production	on Sche	dule															Т					Date	e: Ma	ay 20	009				
Appropriation (Treasury) Code	e/CC/BA/B	SA/Item C	Control Nu	ımber													P-	1 Line	e Item	Nom	encla	ture							
Missile Procureme	nt, Air	Force	, Budo	get Ac	tivit	y 05	5, O	ther	' Su	ppc	ort,	lten	n No	o. 20	6			pac igh	e-B	ase	d lı	nfra	-Re	d S	yste	em	(SB	IRS	i)
	S		ACCEP	BALANC					FIS	CAL Y	EAR:	2012									FIS	CAL Y	EAR 2	2013					I
	E	PROC	PRIOR	DUE		2011		_	_			CALI	ENDAI	YEA	R 2012				_			C.	ALENI		EAR 2	013			A
PROCUREMENT YEAR	R V	QTY	TO 1 OCT 2011	AS OF 1 OCT 2011	O C T	N O V	D E C	J A N	F E R	M A R	A P R	M A V	J U N	J U I	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 V	J U N	J U I	A U G	S E P	
2009	USAF	1	2011) 2011	<u> </u>	<u> </u>		-11	ъ		- K	1	- 11		-	1	1			-11	ь	- K	- K		11	<u> </u>		<u> </u>	T
2010	USAF	1	() 1																									
TOTAL		2	2 () 2	2											1													П
					O C T	N O V	D E C	J A N	F E	M A R	A P R	M A Y	JUZ	J U	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	J	A U G	S E P	
				PRODUC	TION	RATES	}	- IN					PRO	CURE	MENT	LEAD	TIME			IN					IN				
ITEM/MANUFACTURER'S NAME		LOCATIO	N.	MIN SUST	SHIF HOU DAY:	T RS	M A X							ADI				MFG			ОТАІ								
HEO 3 &4 Payloads / Lockheed Mar Systems (LSSC)		Sunnyvale	, CA										PRI 1 C		AFT 1 O			TIME			AFTER I OCT								
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REMARKS																													

P-1 Shopping List Item No. 26

Production Schedule Exhibit P-21, page 10 of 11

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Exhibit P-21, Production Sche	dule																				Date	: Ma	ay 20	009				
Appropriation (Treasury) Code/CC/BA/E	3SA/Item (Control Nu	ımber													P-	1 Line	e Item	Nome	encla	ture							
Missile Procurement, Air	Force	, Budo	get Act	ivit	y 05	5, O	ther	r Su	ppo	ort,	Iten	n No	o. 2	6			pac igh		ase	d Ir	nfra-	-Re	d S	ysto	em	(SB	IRS)
S		ACCEP	BALANCI					FIS	CAL Y	YEAR										FIS	CAL Y							Ι
F	PROC	PRIOR	DUE	_	2013	_						ENDAI	R YEA	R 2014				_		_		LENI		EAR 2	2015	١.		A
PROCUREMENT YEAR R V	QTY	TO 1 OCT	AS OF 1 OCT	O C	N O V	D E	A	F E	A A	A P	M A	U	U	A U	S E	O C	O	E E	A	F E	M A P	A P	M A	U	U	U U	S E	T E
2010 USAF	+	2013	2013	T	V	<u>C</u>	N	В	K	K	Y	N	L	G	Р	T	V 1	C	N	В	R	R	Y	N	L	G	Р	<u> </u>
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ITEM/MANUFACTURER'S NAME	LOCATIO)N	MIN SUST	SHIF HOU DAYS	RS	M A X								MIN TIME			MFG			OTAL								
HEO 3 &4 Payloads / Lockheed Martin Space Systems (LSSC)	Sunnyvale	, CA										PR 1 C	IOR OCT		TER OCT		TIME			FTEF OCT								
	+						INITIA	AL					4		3			53			50							
								RDER																				

P-1 Shopping List Item No. 26

Production Schedule Exhibit P-21, page 11 of 11

Exhibit P-40, Budget Item Jus	stification									ate: May 2	009	
Appropriation (Treasury) Code/CC/BA/	BSA/Item Cor	trol Number						P-1 Line Iter	m Nomenclatu	ire		
Missile Procurement, Ai	r Force, I	Budget Act	ivity 05,	Other Su	ipport, It	em No. 2	27	Space-I	Based Inf	fra-Red S	System (S	BIRS)
		_						High Ad	lvance P	rocurem	ent	·
Program Element for Code B Item	ıs:	N/A			Other Relat	ed Program	Elements:		PE 060444	1F		
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A											0
Cost (\$ M)												0.000
Advance Proc Cost (\$ M)			395.310	53.841	159.000							608.151
Weapon System Cost (\$ M)		0.000	395.310	53.841	159.000							608.151
Initial Spares (\$ M)												0.000
Total Proc Cost (\$ M)		0.000	395.310	53.841	159.000							608.151
Flyaway Unit Cost (\$ M)												
Wpn Sys Unit Cost (\$ M)												

Description

This program has associated Research Development Test and Evaluation funding in PE 0604441F.

The Space-Based Infrared System's (SBIRS) primary mission is to provide initial warning of a ballistic missile attack on the US, its deployed forces and its allies. SBIRS will incorporate new technologies to enhance detection and improve reporting of intercontinental ballistic missiles, submarine launched ballistic missiles, and tactical ballistic missiles. SBIRS provides increased detection & tracking performance in order to meet requirements in US Space Command's Capstone Requirements Document and Operational Requirements Document (ORD). SBIRS will consist of satellites in Geosynchronous Earth Orbit (GEO) and payloads in Highly Elliptical Orbit (HEO) with an integrated centralized ground station serving all SBIRS space elements, Defense Support Program (DSP) satellites and other program related support activities. The HEO payloads operate on a classified host.

SBIRS GEO-3 and 4 satellites are derivatives of the first two GEO satellites which will be delivered on the SBIRS Engineering and Manufacturing Development (EMD) contract using RDT&E funds. The GEO-3 and 4 satellite production efforts are necessary to meet constellation requirements. The Acquisition Decision Memorandum (ADM) signed 1 Dec 2008 approved the acquisition of the GEO-3 & 4 satellites and the HEO-3 and 4 payloads using a Cost-Plus contract.

SBIRS HEO-3 and 4 payloads are replenishments for HEO-1 and 2 payloads, which were delivered on the SBIRS Engineering and Manufacturing Development (EMD) contract using RDT&E funds. The HEO-1 payload is accepted and certified for Integrated Tactical Warning/Attack Assessment (ITW/AA) missile warning operations. The HEO-2 payload is in orbit and is conducting on-orbit checkout and testing. HEO-2 is scheduled for certification and subsequent operations in late summer 2009.

FY 2010 Program Justification

Funds continued advance procurement for the GEO-4 satellite. Continue Program Office and related support activities, such as, but not limited to, Systems Engineering and Integration.

P-1 Shopping List Item No. 27

Budget Item Justification Exhibit P-40, page 1 of 3

Exhibit P-10 p.1, Advance (Page 1 - Funding)	e Procure	ment Requi	rements A	Analysis						Da	te: May 20	09	
Appropriation (Treasury) Code/Co	C/BA/BSA/Ite	em Control Num	ber					F	P-1 Line Item	Nomenclature)		
Missile Procurement				tv 05. Ot	her Supi	oort. Iten	n No. 27	ls	Space-Ba	ased Infr	a-Red Sv	ystem (S	BIRS)
	,	, <u>.</u>		, 00, 00.		,			ligh Adv		-	_	,
Weapon System						First System	Award Date				Completion I		
SBR HA								/-96				r-06	
Description	PLT	When Rqd	<u>Prior</u>	FY 2008	(\$ in	Millions) FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	<u>Total</u>
	ļ 		<u>Years</u>						1				
End Item Qty				0	2	1	1	<u> </u>	1				6
CDE						I	ı	<u> </u>	I	1	ı	1 1	0.000
CFE GFE													0.000
GFE													0.000
EOQ													0.000
Design													0.000
Term Liability													0.000
Other-GEO 3 Long Lead				271.104									271.104
Other-GEO 4 Long Lead						159.000							159.000
Other-HEO 3 Long Lead Other-HEO 4 Long Lead				124.206									124.206
Other-HEO 4 Long Lead					53.841								53.841
TOTAL AP			0.000	395.310	53.841	159.000							608.151
Description													
FY09 \$120M ATR received to	for advance	procurement	of the GEO	0-4 satellite,	funding no	t reflected in	this docun	nent.					
,		F											
				D 4 Cl-	nnina I :-+	Itom No. C	7		- در در دام ۸	o Draces	mant Da	uirom	Anglyaia
				P-1 500	pping List	Item No. 2	.7		Advanc	e Procure		uirements Page 1 - Fu	
												10 n 1 nad	

Exhibit P-10 p.2, Advand (Page 2 - Budget Justific		ment Req	uirements	Analys	sis							Date: M	ay 2009		
Appropriation (Treasury) Code/C		m Control N	umber							P-1 Line Ite	em Nomencl	lature			
Missile Procuremen				ity 05	Other S	Support	Item	No 27	į.	Snace-	Based I	Infra-Re	ev2 he	tem (SB	IRS)
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Weapon System										i iigii A	availee	1 10001	Cilicin	•	
SBR HA															
SDKTIA					(T	OA, \$ in N	(fillions)								
			T		2008	2008		2009	2009		2010	2010		2011	2011
					Contract			Contract			Contract				
				2008	Forecast		2009	Forecast	1——	2010	Forecast	Cost	2011	Forecast	Cost
<u>Description</u>	PLT	<u>OPA</u>	Unit Cost		Date		OTY	Date	Request	OTY	Date	Request	OTY	Date	Request
End Item	121	<u>QIII</u>	Cint Cost	VII	Dute	request	VII	Bute	Request	<u>VII</u>	Dute	request	VII	Dute	request
CFE			T												
GFE															
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Design															
Term Liability															
Other-Long Lead															
Other-GEO 3 Long Lead					Mar-08	271.104									
												159.000			
Other-GEO 4 Long Lead Other-HEO 3 Long Lead					Mar-08	124.206									
Other-HEO 4 Long Lead								May-09	53.841						
Other-GEO 6 Long Lead															
TOTAL AP						395.310			53.841			159.000			
Description															
_	C 1		. C.1 CT	10 4 4	11'. C 1'		. 1:	.1 . 1							
FY09 \$120M ATR received	for advance	procureme	nt of the GE	O-4 sate	ilite, fundir	ig not refl	ected in t	this docume	ent.						
				D 4	Channing	Liot Itom	No 27			۸ ما، ۱۰	nno Dres	NI KOMON	· Dom:	omonto A	nalvaia
				P-1	Shopping	ı List item	1 INO. 21			Auva	ance Proc			ements A et Justifi	
														n 2 nage	

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Exhibit P-40, Budget Item Jus	tification								D	ate: May 20	009	
Appropriation (Treasury) Code/CC/BA/E	SA/Item Cont	trol Number						P-1 Line Iten	n Nomenclatu	re		
Missile Procurement, Air	Force, E	Budget Act	ivity 05,	Other Su	ipport, It	em No. 2	28	Nationa	l Polar-O	rbiting C	p Env Sa	atellite
Program Element for Code B Items	3:	N/A			Other Relat	ed Program	Elements:		0603434F,	0305953F		
	ID Code	Prior Years	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Comp	Total
Proc Qty	A										TBD	TBD
Cost (\$ M)					3.900						TBD	TBD
Advance Proc Cost (\$ M)												
Weapon System Cost (\$ M)		0.000	0.000	0.000	3.900						TBD	TBD
Initial Spares (\$ M)		0.000	0.000									
Total Proc Cost (\$ M)		0.000	0.000	0.000	3.900						TBD	TBD
Flyaway Unit Cost (\$ M)												
Wpn Sys Unit Cost (\$ M)												

Description

This program has associated Research Development Test and Evaluation funding in PE 35178F.

Presidential Decision Directive/National Science and Technology Council-2 (PDD/NSTC-2) (May 1994) directs the Department of Defense (DoD), Department of Commerce (DOC), and the National Aeronautics and Space Administration (NASA) to establish a converged national polar-orbiting weather satellite program. The converged program, the National Polar-orbiting Operational Environmental Satellite System (NPOESS), combines the follow-on to DoD's Defense Meteorological Satellite Program (DMSP) and the DOC's Polar-orbiting Operational Environmental Satellite (POES) program. The Air Force (DoD) and NOAA (DOC) fund NPOESS 50/50 (by year) at the total program level. Note: part of the Air Force share also resides in the launch vehicle PE MPAF 0305953F. However, apportionment of DoD and DOC funds to specific activities does not have to be 50/50 and is at the program office discretion.

The converged program will be the nation's primary source of global weather and environmental data for operational military and civil use. It will provide visible and infrared cloud cover imagery and other atmospheric, oceanographic, terrestrial, and space environmental information. NPOESS will provide a constellation of satellites in sun synchronous, 450 nautical miles (NM) polar-orbits (sun synchronous means the satellites cross the equator at the same local sun time on each of their 14 orbits/day).

FY 2010 Program Justification

FY 2010 funds will begin the procurement activities for the incrementally funded NPOESS C-3 satellite.

P-1 Shopping List Item No. 28

Budget Item Justification Exhibit P-40, page 1 of 3

Exhibit P-5, Weapon System Cost /	Analysis									Date: N	May 2009	9	
Appropriation (Treasury) Code/CC/BA/BSA/Ite Missile Procurement, Air Fore	m Control Number	Activity	v 05. Oth	er Suni	oort It	am No. 2	R		e Item Nomen Onal Pola		ina On	Env Sate	allita
Manufacturer's Name/Plant City/State Lo	_	-CLIVIL	y 03, Oth	Subline It		5111 NO. 20	<u> </u>	Ivatic	mai i oia	1-015111	iig Op	LIIV Jak	
Trianaractarer s rvanie/1 fant City/State Le	Zution			Submic 10									
Weapon System	Ident			ı		Total	Cost in M	lillions of	Dollars				
Cost Elements	Code		FY 2008			FY 2009			FY 2010		Co	ost to Comp	lete
				Total			Total			Total			Total
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost
NPOESS Satellite C-3	A									3.900			TBD
Launch Mission Integration	A												TBD
Support and Management	A												TBD
NPOESS Satellite C-4	A		1										TBD
Launch Mission Integration	A												TBD
Support and Management	A												TBD
	A												
	A												
	A												
	A												
	A		+										
TOTAL PROGRAM	A								+	3.900			TBD
Comments										3.900			עמו
FY 2010 funds will begin the procurement	nt activities for th	e NPOF	SS C-3 sate	llite									
			P-1 Shop	pping List	Item No	. 28				Weapo		m Cost Ai	

					UNCLA	ספורובט		_				
Exhibit P-5A, Procurement Hi	story	and Planni	ing						D	ate: May 2	2009	
Appropriation (Treasury) Code/CC/BA/6	BSA/Ite	m Control Nun	nber					P-1 Line Ite	em Nomenclatu	ıre		
Missile Procurement, Air	r For	ce, Budg	et Activity	05, Othe	er Suppo	rt, Item N	o. 28	Nationa	al Polar-C	orbiting (Op Env S	atellite
Weapon System				·	Subline Ite	m					•	
NPOESS												
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and	l Location		Date of First Delivery	Specs Available Now?	Date Revision Available?
Amorrag a . III . a a			mp.p		mp.p					T 10		
NPOESS Satellite C-3	1	TBD	TBD		TBD	TBD	TBD			Jan-18		
Remarks												
FY 2010 funds will begin the proce	uremei	nt activities f	or the NPOES	SS C-3 satell	lite Per the	June 2006 A	equisition Decision	on Memora	ndum (ADM	direction	a decision w	ill be
made to determine the acquisition											a decision w	III oc
made to determine the acquisition	арргоа	en to procure	the two proc	idetion sater	intes (C 3 an	<u>u c +) iii tiic</u>	2010 timename	(objective i	3 June 2010).	·		
										_		
				P-1 Shop	ping List Ite	em No. 28			Proc	urement F	listory and	Planning

Exhibit P-5A, page 3 of 3

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UNITED STATES AIR FORCE

Committee Staff Procurement Backup Book Fiscal Year (FY) 2010 Overseas Contingency Operations Request



May 2009

MISSILE PROCUREMENT, AIR FORCE

OPR: SAF/FMB

UNCLASSIFIED

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FY 2010 Budget Estimates MISSILE PROCUREMENT, AIR FORCE (3020)

SECTION 1 ~ SUMMARY MATERIAL	
Exhibit P-1 Missile Procurement, Air Force	1
SECTION 2 ~ BUDGET APPENDIX EXTRACT LANGUAGE	
Missile Procurement, Air Force – Appendix Language	(NOT INCLUDED)
SECTION 3 ~ P-1 LINE ITEM DETAIL	
BUDGET ACTIVITY 01: BALLISTIC MISSILES	N/A
BUDGET ACTIVITY 02: OTHER MISSILES	
TACTICAL	
P-1 Line Item No. 5 – Hellfire Missile (PRDTA2)	2 – 1
P-1 Line Item No. 6 – Small Diameter Bombs	2 – 13

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FY 2009 Budget Estimates

MISSILE PROCUREMENT, AIR FORCE (3020)

BUDGET ACTIVITY 03: MODIFICATION OF IN-SERVICE MISSILES	N/A
BUDGET ACTIVITY 04: SPARES AND REPAIR PARTS	N/A
BUDGET ACTIVITY 05: OTHER SUPPORT	N/A

FY 2010 Overseas Contingency Operations Supplemental - Procurement P-1 Exhibit

Appropriation	ВА	P-1 Line	Line Item Name	Quantity	FY10 OCO (\$000)
MPAF	02	5	Hellfire	385	\$ 29,325
MPAF	02	6	Small Diameter Bombs	100	\$ 7,300
Total MPAF					36,625

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Exhibit P-40, Budget Item Justification	1					Date	e: May 2009		
Appropriation (Treasury) Code/CC/BA/BSA/Item C	ontrol Number				P-1 Line Ite	em Nomenclature			
Missile Procurement, Air Force,	Budget Acti	Hellfire	Missile						
Program Element for Code B Items:		Other Related P	rogram Elements	S:					
					FY09 OCOSR				
	ID Code	Prior Years	FY08 SUPP	FY09 Bridge	Pending	FY10 OCOR	To Comp	Total	
Proc Qty	A		770		742	385			1,897
Total Proc Cost (\$ M)		37.852	60.030	0.000	57.416	29.325			184.623

Description

Hellfire is an air-to-ground missile system that provides precision-kill capability and has become a key weapon in the global war on Terrorism. Laser Hellfire uses semi-active laser terminal guidance. The latest variant provides for point target precision strike and is effective against countermeasures. The Hellfire missiles will be used by the MQ-1 and MQ-9 aircraft. Hellfire missiles will be procured through the Army's Redstone Arsenal. Prior to FY08, Hellfire missiles were procured under the Predator PE 0305219F.

FY 2010 Program Justification

Missile procurement funding for 385 AGM-114 Hellfire missiles, flight training missiles, telemetry measurement (TM) kits, load training missiles and associated spares. Multiple variants (K, M, N, P, etc.) of the Hellfire missile may be procured based upon operational requirements for various warheads and the enhanced weapon engagement zone. Quantities are based on current estimated price for purchase through the Army. The Hellfire missiles are used for test, training and operations.

Current usage exceeds expenditure forecasts and the additional Unmanned Aerial System (UAS) Combat Air Patrols (CAPs) that will come on line in the next year will significantly increase expenditures.

P-1 Shopping List Item No. 5

Budget Item Justification Exhibit P-40, page 1 of 11

				UNCL	ASSIFIE	ED							
Exhibit P-5, Weapon System Cost										Date: N	/lay 2009		
Appropriation (Treasury) Code/CC/BA/BSA/Ite								P-1 Line	Item Nomen	clature			
Missile Procurement, Air For	ce, Budget A	ctivity	02, Oth	er Miss	iles, Ite	m No. 5		Hellfii	re Missil	е			
Manufacturer's Name/Plant City/State Lo	ocation			Subline Ite	em								
Varies										,	,		
Weapon System	Ident						Cost in Mi						
Cost Elements	Code	I	Y08 SUP		F	Y09 Bridg		FY09	OCOSR Pe		F	Y10 OCOF	
				Total			Total			Total			Total
			Unit Cost	Cost	Qty	Unit Cost	Cost		Unit Cost	Cost	Qty	Unit Cost	Cost
AGM-114		770	0.078	60.030	0		0.000	742	0.077	57.416	385	0.076	29.325
TOTAL PROGRAM													
Comments Hellfire missiles will be procured throug	I d A TT .			1. 1	10 :	1/ 57	10						
Tiennie missies win de procured unoug	ii the runny. Omt	cost may	vary deper	name on ic	au bei vie	and/of Th	no procure	mem quai	ititios.				

Weapon System Cost Analysis Exhibit P-5, page 2 of 11

Exhibit P-5, Weapon System Cost Ar	nalveie			UNCLASSIFILD	Date: May 2009	
					·	
Appropriation (Treasury) Code/CC/BA/BSA/Item					P-1 Line Item Nomenclature	
Missile Procurement, Air Force	e, Budget <i>I</i>	Activity 0	2, Oth	ier Missiles, Item No. 5	Hellfire Missile	
Manufacturer's Name/Plant City/State Loca	ation			Subline Item		
Varies						
Weapon System	Ident					
Cost Elements	Code	Cost 1	to Comp	olete		
				Total		
		Qty U	Init Cost	Cost		
AGM-114						
TOTAL PROGRAM						
Comments	•	· · · · · · · · · · · · · · · · · · ·		<u> </u>		
Comments Hellfire missiles will be procured through t	the Army. Uni	t cost may va	ary depe	nding on lead Service and/or FMS prod	urement quantities.	
	-	•		•	•	\neg
		_				<u> </u>
		Р	-1 Shop	pping List Item No. 5	Weapon System Cost Analys	SIS
					Exhibit P-5, page 3 of	11

					UNCLAS	SSIFIED						
Exhibit P-5A, Procurement H	History	and Plann	ing							Date: May 2	2009	
Appropriation (Treasury) Code/CC/BA								P-1 Line Ite	m Nomenclati	ure		
Missile Procurement, A	ir For	ce, Budg	et Activity	02, Oth	er Missile	es, Item N	o. 5	Hellfire	Missile			
Weapon System					Subline Ite	m						
PRDTA2												
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor an	d Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revision Available?
FY 2008												
AGM-114(P) SUPP	770		ARMY		MIPR	FP	TBD		Aug-08	Dec-10	Yes	
FY 2009												
AGM-114(P) SUPP	742		ARMY		MIPR	FP	TBD		Jul-09	Jul-11	Yes	
FY 2010												
Hellfire	385		ARMY		MIPR	FP	TBD		Jan-10	Jan-11	Yes	
<u>Remarks</u>												
Hellfire missiles will be procured	l through	the Army.										

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	2003	USAF	137	0	137										<u> </u>							d			igsqcup		<u> </u>	137		0
TOT	AL		137	0	137	0	N	D	J	F	М	A	М	J	J	Α	S	0	N	D	J	F 0	М	Α	М	J	J	137 A	s	0
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Production Schedule Exhibit P-21, page 5 of 11

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Production Schedule Exhibit P-21, page 6 of 11

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2012	USAF	355	0	355																							ш		355
2013	USAF	355	0	355																			<u> </u>				ш		355
TOTAL		6,259	0	6,259	_	L		_	0		<u> </u>												<u> </u>	L.			\vdash		6,259
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P-1 Shopping List Item No. 5

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REMARKS												=																	

Hellfire missiles will be purchased through the Army Location and production details are contingent on lead Service contracts Prior to FY08, Hellfire missiles were procured under the Predator PE 0305219F

P-1 Shopping List Item No. 5

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	xhibit P-21, Productio																	$oldsymbol{\mathbb{T}}$					Date	e: Ma	ay 20)09				
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Exhibit P-40, Budget Item Justificatio	n					Date	: May 2009		
Appropriation (Treasury) Code/CC/BA/BSA/Item C	ontrol Number				P-1 Line Ite	em Nomenclature			
Missile Procurement, Air Force	, Budget Act	SMALL	. DIAMETER	BOMB					
Program Element for Code B Items:		N/A			Other Related P	rogram Elements	:		
					FY09 OCOSR				
	ID Code	Prior Years	FY08 SUPP	FY09 Bridge	Pending	FY10 OCOR	To Comp	Total	
Proc Qty	A					100	N/A		N/A
Total Proc Cost (\$ M)			0.000	0.000	0.000	7.300	N/A		N/A

Description

- 1. Small Diameter Bomb Increment I (SDB I) is an Air Force ACAT 1C program providing increased kills per sortie on current and future aircraft platforms. SDB I addresses the following specific warfighter requirements: multiple kills per pass; multiple ordnance carriage; adverse weather, precision munitions capability; capability against fixed targets; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; and reduced susceptibility of munitions to countermeasures. Threshold aircraft is the F-15E. Objective aircraft include the B-1, B-2, A-10, Joint Strike Fighter (JSF), F-22A, F-16, B-52, and Predator B. SDB I completed IOT&E in June 2006 and commenced Full Rate Production (FRP) in Dec 06.
- 2. Procurement quantities are estimates only and fall within a range of quantites based on price commitment curves on contract. SDB I total procurement costs include 24,000 weapons, 2,000 common four-place carriages, and associated production spares. The carriage cost is broken out separately on the P-5 exhibit. The carriage quantities are as follows: FY05-27; FY06-128; FY07-300; FY08-335; FY09-377; FY10-454; FY11-379. Procurement quantities also include two types of containers for the system (carriage and weapon) and Common Munitions BIT Reprogramming Equipment (CMBRE) units.
- 3. Small Diameter Bomb I Focused Lethality Munition (SDB I FLM) is a Joint Capabilities Technology Demonstration (JCTD) program that increases the near field blast, but decreases collateral damage giving increased options to the warfighter. SDB I FLM extends access to targets restricted by collateral damage limitations. The Military Utility Assessment was completed in Jun 08 with positive feedback in all areas. The FY10 OCOSR funds will procure additional residual assets and associated logistics support.

FY 2010 Program Justification

FY10 OCOR funding will procure 100 residual SDB I FLM weapons.

P-1 Shopping List Item No. 6

Budget Item Justification Exhibit P-40, page 1 of 6

	Analysis									Date: N	May 2009)					
Appropriation (Treasury) Code/CC/BA/BSA/Itel	m Control Number							P-1 Lin	e Item Nomen	clature							
Missile Procurement, Air Ford	ce, Budget A	Activity	<mark>/ 02, Oth</mark>	er Miss	iles, It	em No. 6		SMA	LL DIAM	ETER E	BOMB						
Manufacturer's Name/Plant City/State Lo	ocation			Subline It	em												
Boeing, St Louis MO																	
Weapon System	Ident			Total Cost in Millions of Dollars													
Cost Elements	Code		FY08 SUP	Р		FY09 Bridg	e	FY0	9 OCOSR P	ending	I	FY10 OCOF	_				
				Total			Total			Total			Total				
		Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost	Qty	Unit Cost	Cost				
Hardware Recurring	A										100)	7.300				
All Up Round Weapon	A																
TOTAL PROGRAM Comments																	

Weapon System Cost Analysis Exhibit P-5, page 2 of 6

			UNCLASSIFIED	
Exhibit P-5, Weapon System Cost An	alysis			Date: May 2009
Appropriation (Treasury) Code/CC/BA/BSA/Item C	Control Number			P-1 Line Item Nomenclature
Missile Procurement, Air Force	, Budget Ac	tivity 02, Otl	ner Missiles, Item No. 6	SMALL DIAMETER BOMB
Manufacturer's Name/Plant City/State Locat	tion		Subline Item	
Boeing, St Louis MO				
Weapon System	Ident			
Cost Elements	Code	Cost to Com	plete	
			Total	
		Qty Unit Cos	I I	
Hardware Recurring	A			
All Up Round Weapon	A			
TOTAL PROGRAM				
Comments			<u> </u>	
The FY10 OCOSR will procure 100 SDB I	FLM residual ass	sets.		
		D_1 Sho	pping List Item No. 6	Weapon System Cost Analysis
		F-1 3HC	pping List item No. 0	Exhibit P-5, page 3 of 6

					UNCLAS	SSIFIED						
Exhibit P-5A, Procurement Hi										Date: May	2009	
Appropriation (Treasury) Code/CC/BA/	BSA/Ite	m Control Nun	nber					P-1 Line Ite	em Nomenclati	ıre		
Missile Procurement, Air	r For	ce, Budg	et Activity	, 02, Oth	er Missile	es, Item N	o. 6	SMALL	DIAMET	ER BON	1B	
Weapon System				·	Subline Ite	m						
SDB												
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and	Contractor and Location		Date of First Delivery	Specs Available Now?	Date Revision Available?
FY2010 OCOSR	100	0.067	Eglin AFB		SS	FFP	Boeing St Lois	MO	Oct-10	Oct-11	No	N/A
· ·	100	0.007	Lgiiii Ai D		טט	1111	Doeing St Lois	NIO	000-10	000-11	110	14/A
<u>Remarks</u>												
SDB system includes weapons and	l carria	ges - only w	eapon quantit	y shown abo	ove.							
				P-1 Shop	ping List Ite	em No. 6			Proc		listory and	
										Exhi	bit P-5A, pa	age 4 of 6

										UNC	LA	55	IFIE	U																
Exi	nibit P-21, Productio	n Sche	dule																				Date	э: Ма	ay 20	009				
Арр	ropriation (Treasury) Code	/CC/BA/B	SA/Item C	ontrol Nu	mber													P-	1 Line	e Iten	Nom	encla	ature							
Mi	ssile Procuremei	nt, Air	Force,	Budg	jet Act	ivit	y 02	<u>2</u> , O	the	r Mi	ssil	es,	Iter	n N	o. 6			s	MΑ	LL	DIA	ME	TEF	R BO	MC	3				
		S		ACCEP	BALANCI					FIS	CAL Y	YEAR	2009									FIS	SCAL	YEAR	2010					L
		E	PROC	PRIOR	DUE		2008						CAL	ENDA)	R YEA	R 2009)						C	ALEN	DAR Y	EAR 2	.010			A
	PROCUREMENT YEAR	R V	QTY	TO 1 OCT 2008	AS OF 1 OCT 2008	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	T E R
	2010 Overseas Contingency Operations	USAF	100	0	100																									10
TOT	AL		100	0	100																									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	
					PRODUC	TION	RATES	3						PRO	CURE	MENT	LEAD	TIME												
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REM	ARKS																													
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P-1 Shopping List Item No. 6

Production Schedule Exhibit P-21, page 5 of 6

Appropri Missi	it P-21, Production iation (Treasury) Code/ile Procuremer	CC/BA/B		ontrol Nu	mh a r																		Date	2 · M	ay 20	ากจ				
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	ile Procuremer			Officion 14a	mbei													P-	1 Line	e Item	Nom	encla	ature							
		ıt, Air	Force,	Budg	jet Act	ivit	y 02	<u>2</u> , O	the	r Mis	ssil	es,	Iter	n N	o. 6			S	MA	LL I	DIA	ME	TER	B	OME	3				
		S			BALANCE					FIS	CAL Y	/EAR										FIS	SCAL Y							L
F	PROCUREMENT YEAR	E R V	PROC QTY	PRIOR TO 1 OCT	AS OF 1 OCT	O C	2010 N O	D E	J A	F E	M A	A P	M A	J U	J U	R 2011 A U	S E	O C	N O	D E	J A	F E	M A	ALEN A P	M A	EAR 2 J U	012 J U	A U	S E	T E
	0 Overseas Contingency	USAF	100	2010	2010	Awar d	V	C	N	В	R	R	Y	N	_ L_	ن	Р	100	V	C	N	В	R	R	Y	N	L	G	Р	R
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	M - Boeing		St Louis MO	-		1-8-5		3,774]						IOR OCT	AF 1 C	TER OCT		TIME			OCT								
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