DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book Fiscal Year (FY) 2011 Budget Estimates

MISSILE PROCUREMENT, ARMY

MISSILE PROCUREMENT, ARMY

Appropriation Language

For construction, procurement, production, modification, and modernization of missile equipment, including ordnance, ground handling equipment, spare parts, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefore, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, \$2,231,265,000 to remain available for obligation until September 30, 2013.

DEPARTMENT OF THE ARMY FY 2011 PROCUREMENT PROGRAM President's Budget FY 2011

EXHIBIT P-1 DATE: 25-Jan-2010 7:46

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SUMMARY BY ACTIVITY:					
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ACTIVITY: 02 Other missiles	4				
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ACTIVITY: 04 Spares and repair parts	6				
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NOMENCLATURE INDEX					
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DEPARTMENT OF THE ARMY FY 2011 PROCUREMENT PROGRAM

President's Budget FY 2011

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APPROPRIATION SUMMARY APPROPRIATION

Missile Procurement, Army

TOTAL PROCUREMENT PROGRAM

DOLLARS IN THOUSANDS

PAGE	Y2011 Total	/2011 OCO F	FY2011 F	FY2010	FY2009
3	2,231,265	343,828	1,887,437	1,723,148	2,851,700
	2.231.265	343.828	1.887.437	1.723.148	2.851.700

DEPARTMENT OF THE ARMY FY 2011 PROCUREMENT PROGRAM President's Budget FY 2011

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APPROPRIATION Missile Procurement, Army **ACTIVITY**

	APPROPRIATION TOTALS
05	Support equipment and facilities
04	Spares and repair parts
03	Modification of missiles
02	Other missiles

DOLLARS IN THOUSANDS

PAGE	FY2011 Total	FY2011 OCO	FY2011	FY2010	FY2009	
4	2,043,716	303,228	1,740,488	1,546,225	2,128,221	
5	158,649	40,600	118,049	144,921	687,090	
6	19,569		19,569	22,269	25,850	
7	9,331		9,331	9,733	10,539	
	2.231.265	343.828	1.887.437	1.723.148	2.851.700	

DEPARTMENT OF THE ARMY

FY 2011 PROCUREMENT PROGRAM President's Budget FY 2011

EXHIBIT P-1 DATE: 25-Jan-2010 7:47

ACTIVITY 02 Other missiles **APPROPRIATION** Missile Procurement, Army **DOLLARS IN THOUSANDS** LINE FY 2009 FY 2010 FY 2011 FY 2011 OCO FY 2011 TOTAL NO ITEM NOMENCLATURE ID QTY COST QTY COST QTY COST QTY COST QTY COST SURFACE-TO-AIR MISSILE SYSTEM PATRIOT SYSTEM SUMMARY (C49100) Α 108 510.576 58 341.296 78 480.247 78 480.247 2 Surface-Launched AMRAAM System Summary: (C81001) Α (40.349)(116,732)(116,732)Less: Advance Procurement (PY) (-40,349)116.732 0 116,732 3 Surface-Launched AMRAAM System Summary: (C81001) Advance Procurement (CY) 40,349 SUB-ACTIVITY TOTAL 550,925 341,296 596,979 596,979 AIR-TO-SURFACE MISSILE SYSTEM 4 HELLFIRE SYS SUMMARY (C70000) Α 2.945 253,124 2,165 227,101 240 31.881 190.459 240 222.340 SUB-ACTIVITY TOTAL 253,124 227,101 31,881 190,459 222,340 ANTI-TANK/ASSAULT MISSILE SYSTEM 5 JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007) 1.320 367,888 1.265 258.553 715 163.929 715 163.929 6 TOW 2 SYSTEM SUMMARY (C59300) Α (404,345)9,022 1,849 (141,933)(30,326)1,200 (112,769)1,200 (143,095)Less: Advance Procurement (PY) (-10,000)394.345 141.933 30.326 112.769 143.095 7 TOW 2 SYSTEM SUMMARY (C59300) Advance Procurement (CY) 48.355 48.355 8 BCT Non Line of Sight Launch System - Increment 1 (C64501) 350.574 350.574 Α Guided MLRS Rocket (GMLRS) (C64400) 2,652 309,205 3,228 353,311 2,592 291,041 2.592 291,041 10 MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR) (C65405) 4,014 25,225 2,064 15,615 2,058 15,886 2,058 15,886 11 High Mobility Artillery Rocket System (HIMARS) (C02901) 227,509 46 208,416 44 211,517 57 211,517 SUB-ACTIVITY TOTAL 977.828 1,111,628 112,769 1,224,397 1,324,172

DEPARTMENT OF THE ARMY

FY 2011 PROCUREMENT PROGRAM President's Budget FY 2011

EXHIBIT P-1

DATE: 25-Jan-2010 7:47

APPROPRIATION Missile Procurement, Army	ACTIVITY 02 Other missiles				DO	LLARS I	N THOUSAI	NDS			
LINE		FY	2009	FY	2010	FY	2011	FY 20	11 OCO	FY 20	11 TOTAL
NO ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
ACTIVITY TOTAL			2,128,221	- 	1,546,225		1,740,488		303,228		2,043,716

DEPARTMENT OF THE ARMY

FY 2011 PROCUREMENT PROGRAM

President's Budget FY 2011

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APPROPRIATION Missile Procurement, Army	ACTIVITY 03 Modification of missiles				DOI	LLARS	IN THOUSA	NDS			
LINE		FY	2009	FY	2010	FY	/ 2011	FY 20	011 OCO	FY 201	11 TOTAL
NO ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
MODIFICATIONS											
12 PATRIOT MODS (C50700)			515,375	i	44,637		57,170				57,170
13 ITAS/TOW MODS (C61700)			136,705	i	6,961		13,281		40,600		53,881
14 MLRS MODS (C67500)			1,866	;	22,423		8,217				8,217
15 HIMARS MODIFICATIONS (C67501)			33,144	ļ	70,890		39,371				39,371
16 HELLFIRE Modifications (C71500)					10		10				10
SUB-ACTIVITY TOTAL			687,090)	144,921		118,049	·)	40,600	1	158,649
ACTIVITY TOTAL			687,090	<u>.</u> I	144,921		118,049		40,600		158,649

DEPARTMENT OF THE ARMY

FY 2011 PROCUREMENT PROGRAM

President's Budget FY 2011

EXHIBIT P-1 DATE: 25-Jan-2010 7:47

APPROPRIATION Missile Procurement, Army	ACTIVITY 04 Spares and repair parts				DO	LLARS	IN THOUSA	NDS			
LINE		FY	2009	FY	2010	FY	2011	FY 20	11 OCO	FY 201	1 TOTAL
NO ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
SPARES AND REPAIR PARTS											
17 SPARES AND REPAIR PARTS (CA0250)			25,850)	22,269		19,569	9			19,569
SUB-ACTIVITY TOTAL			25,850	-	22,269	•	19,56	9		•	19,569
ACTIVITY TOTAL			25,850)	22,269	•	19,569	9			19,569

DEPARTMENT OF THE ARMY

FY 2011 PROCUREMENT PROGRAM

President's Budget FY 2011

EXHIBIT P-1 DATE: 25-Jan-2010 7:47

APPROPRIATION Missile Procurement, Army	ACTIVITY 05 Support equipment and facilities				DO	LLARS	IN THOUSA	NDS			
LINE		FY	2009	FY	2010	FY	['] 2011	FY 20	11 OCO	FY 201	1 TOTAL
NO ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
SUPPORT EQUIPMENT AND FACILITIES											
18 AIR DEFENSE TARGETS (C93000)			6,423	3	4,175	j	3,613	3			3,613
19 ITEMS LESS THAN \$5.0M (MISSILES) (CL2000)			10)	1,174	ļ	1,208	3			1,208
20 PRODUCTION BASE SUPPORT (CA0100)			4,106	6	4,384	ŀ	4,510)			4,510
SUB-ACTIVITY TOTAL			10,539	9	9,733	3	9,33	ī		-	9,331
ACTIVITY TOTAL			10,539	,	9,733	<u>.</u> B	9,331	<u>-</u> 		-	9,331
APPROPRIATION TOTAL			2,851,700	<u> </u>	1,723,148	<u>.</u>	1,887,437	;	343,828	- 3	2,231,265

NOMENCLATURE INDEX

SSN	LINE	PAGE	NOMENCLATURE
C93000	18	7	AIR DEFENSE TARGETS (C93000)
C64501	8	4	BCT Non Line of Sight Launch System - Increment 1 (C64501)
C64400	9	4	Guided MLRS Rocket (GMLRS) (C64400)
C71500	16	5	HELLFIRE Modifications (C71500)
C70000	4	4	HELLFIRE SYS SUMMARY (C70000)
C02901	11	4	High Mobility Artillery Rocket System (HIMARS) (C02901)
C67501	15	5	HIMARS MODIFICATIONS (C67501)
C61700	13	5	ITAS/TOW MODS (C61700)
CL2000	19	7	ITEMS LESS THAN \$5.0M (MISSILES) (CL2000)
CC0007	5	4	JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)
C81001	2	4	Less: Advance Procurement (PY)
C59300	6	4	Less: Advance Procurement (PY)
C67500	14	5	MLRS MODS (C67500)
C65405	10	4	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR) (C65405)
C50700	12	5	PATRIOT MODS (C50700)
C49100	1	4	PATRIOT SYSTEM SUMMARY (C49100)
CA0100	20	7	PRODUCTION BASE SUPPORT (CA0100)
CA0250	17	6	SPARES AND REPAIR PARTS (CA0250)
C81001	2	4	Surface-Launched AMRAAM System Summary: (C81001)
C81001	3	4	Surface-Launched AMRAAM System Summary: (C81001)
C59300	6	4	TOW 2 SYSTEM SUMMARY (C59300)
C59300	7	4	TOW 2 SYSTEM SUMMARY (C59300)

SSN INDEX

SSN	LINE	PAGE	NOMENCLATURE
C02901	11	4	High Mobility Artillery Rocket System (HIMARS) (C02901)
C49100	1	4	PATRIOT SYSTEM SUMMARY (C49100)
C50700	12	5	PATRIOT MODS (C50700)
C59300	6	4	TOW 2 SYSTEM SUMMARY (C59300)
C59300	6	4	Less: Advance Procurement (PY)
C59300	7	4	TOW 2 SYSTEM SUMMARY (C59300)
C61700	13	5	ITAS/TOW MODS (C61700)
C64400	9	4	Guided MLRS Rocket (GMLRS) (C64400)
C64501	8	4	BCT Non Line of Sight Launch System - Increment 1 (C64501)
C65405	10	4	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR) (C65405)
C67500	14	5	MLRS MODS (C67500)
C67501	15	5	HIMARS MODIFICATIONS (C67501)
C70000	4	4	HELLFIRE SYS SUMMARY (C70000)
C71500	16	5	HELLFIRE Modifications (C71500)
C81001	2	4	Surface-Launched AMRAAM System Summary: (C81001)
C81001	2	4	Less: Advance Procurement (PY)
C81001	3	4	Surface-Launched AMRAAM System Summary: (C81001)
C93000	18	7	AIR DEFENSE TARGETS (C93000)
CA0100	20	7	PRODUCTION BASE SUPPORT (CA0100)
CA0250	17	6	SPARES AND REPAIR PARTS (CA0250)
CC0007	5	4	JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)
CL2000	19	7	ITEMS LESS THAN \$5.0M (MISSILES) (CL2000)

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BLIN	SSN	Nomenclature	Page
001	C49100	PATRIOT SYSTEM SUMMARY	
002	C81001	Surface-Launched AMRAAM System Summary	8
003	C81001	Surface-Launched AMRAAM System Summary (Adv. Proc.)	
004	C70000	HELLFIRE SYS SUMMARY	
005	CC0007	JAVELIN (AAWS-M) SYSTEM SUMMARY	
006	C59300	TOW 2 SYSTEM SUMMARY	
008	C64501	BCT Non Line of Sight Launch System - Increment 1	
009	C64400	Guided MLRS Rocket (GMLRS)	47
010	C65405	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR)	59
011	C02901	High Mobility Artillery Rocket System (HIMARS)	65
012	C50700	PATRIOT MODS	
013	C61700	ITAS/TOW MODS	
014	C67500	MLRS MODS	
015	C67501	HIMARS MODIFICATIONS	
016	C71500	HELLFIRE Modifications	109
017	CA0250	SPARES AND REPAIR PARTS	
018	C93000	AIR DEFENSE TARGETS	
019	CL2000	ITEMS LESS THAN \$5.0M (MISSILES)	
020	CA0100	PRODUCTION BASE SUPPORT	117

Exhibit P-40, Budget Item J	ustification	Sheet						Date:	February 2010				
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Othe				P-	1 Item Nomencla PATRIOT S	nture SYSTEM SUMMAR	XY (C49100)						
Program Elements for Code B Items:		Code:	Other 1	Related Program PE 0604865A,	n Elements: 0603869A, 060486	9A, SSN C49200, C	53000						
	Prior Years	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog			
Proc Qty	861	108	58	73	3					1105			
Proc Qty 861 108 58 78 9													
Less PY Adv Proc	123.3									123.3			
Plus CY Adv Proc	123.3									123.3			
Net Proc P1	7633.6	510.6	341.3	480.2	2.2					8968.0			
Initial Spares													
Total Proc Cost	7633.6	510.6	341.3	480.2	2.2					8968.0			
Flyaway U/C													
Weapon System Proc U/C	8.9	4.7	5.9	6.2	2					25.6			

Patriot is an advanced Surface-to-Air guided missile system with a high probability of kill capable of operation in the presence of Electronic Countermeasures (ECM) and able to conduct multiple simultaneous engagements against high performance air breathing targets and ballistic missiles likely to be encountered by U.S. Forces. The system utilizes a multifunction Phased Array Radar, a digital computer controlling system function, a guidance system combining command and homing (track-via-missile) features, and provides the operator the ability to control operations. The system integrates with the U.S. Air Force and U.S. Navy in the overall air defense of theater operations. The Patriot Advanced Capability 3 (PAC-3) program is a result of a series of integrated, phased system improvements in combination with the PAC-3 missile, which uses hit-to-kill technology. Radar enhancements, communications upgrades, and increased command, control, and computer capability, will increase Patriot's effectiveness, survivability, flexibility of defense design, footprint, and detection of smaller low radar cross section targets.

Justification:

FY2011 base procurement dollars in the amount \$480.247 million supports the procurement of 78 PAC-3 missiles and 12 Enhanced Launcher Electronic Systems (ELES).

The PB12 is expected to adjust procurement plans to reflect pending Army decisions.

Exhibit P-40, Budget Item J	Justification	Sheet						Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Othe				P-3	I Item Nomencla PATRIOT F	ture AC-3 (C49200)				
Program Elements for Code B Items:		Code:	Other F	Related Program PE 0604865A, F	Elements: E 0604869A, SSN C	49100				
	Prior Years	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	861	108	58	78						1105
Gross Cost	7633.6	510.6	341.3	480.2	2.2					8968.0
Less PY Adv Proc	123.3									123.3
Plus CY Adv Proc	123.3									123.3
Net Proc P1	7633.6	510.6	341.3	480.2	2.2					8968.0
Initial Spares										
Total Proc Cost	7633.6	510.6	341.3	480.2	2.2					8968.0
Flyaway U/C										
Weapon System Proc U/C	8.9	4.7	5.9	6.2						25.6

Patriot is an advanced Surface-to-Air guided missile system with a high probability of kill capable of operation in the presence of Electronic Countermeasures (ECM) and able to conduct multiple simultaneous engagements against high performance air breathing targets and ballistic missiles likely to be encountered by U.S. Forces. The system utilizes a multifunction Phased Array Radar, a digital computer controlling system function, a guidance system combining command and homing (track-via-missile) features, and provides the operator the ability to control operations. The system integrates with the U.S. Air Force and U.S. Navy in the overall air defense of theater operations. The Patriot Advanced Capability 3 (PAC-3) program is a result of a series of integrated, phased system improvements in combination with the PAC-3 missile which, uses hit-to-kill technology. Radar enhancements, communications upgrades, and increased command, control, and computer capability, will increase Patriot's effectiveness, survivability, flexibility of defense design, footprint, and detection of smaller low radar cross section targets.

Justification:

FY2011 base procurement dollars in the amount of \$480.247 million supports the procurement of 78 PAC-3 missiles and 12 Enhanced Launcher Electronic Systems (ELES).

The PB 12 is expected to adjust procurement plans to reflect pending Army decisions.

Exhibit P-5, Weapon MSLS Cost Analysis	11 1	P-1 Line Item Nomenclature: PATRIOT PAC-3 (C49200)		Weapon System Type:	Date: February 2010
MSLS	ID	FY 09	FY 10		FY 11

	missile Procurement, Philip / 2 /	ouner n			(0.0200)						2010
MSLS		ID		FY 09			FY 10			FY 11	
Cost Element	s	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Missile Hardware - Recurring											
Missile Hardware			333030	108	3084	201943	58	3482	245611	78	3149
Field Surveillance			32724			6025			18264		
PAC-3 Missile Support Center (P3MSC)									12050		
Obsolescence			32940			7558			24200		
Tooling/Maintenance			1400								
SUBTOTAL			400094			215526			300125		
Ground Support Equipment											
Enhanced Launcher Electronic System						25060	5	5012	51812	12	4317
Electric Power Plants			14490	8	1811						
SUBTOTAL			14490			25060			51812	:	
Other											
Limited User Testing									25000		
SUBTOTAL									25000		
Support Cost											
Contractor Engineering			38442			42373			43312	:	
Government/Software Engineering			20614			20903			21500		
Sys Engrg/Proj Mgmt (SEPM)			14421			14583			14998		
Integrated Logistics Support			13022			13223			13600		
Depot Maint Plant Equipment (DMPE)			1022			1071			1100		
Fielding			8471			8557			8800		
SUBTOTAL			95992			100710			103310		
m 4.1			510556			241206			4002.47	,	
Total:			510576			341296			480247		

Exhibit P-5a, Budget Procurement H	istory and I	Planning							ate: ebruary	2010	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army/ 2/ Other missiles		Weapon System Type:	P-1 Line Item PATRIOT PA	Nomenclature: C-3 (C49200)				•			
WBS Cost Elements:		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Missile Hardware											
FY 2008	LMMFC Dallas, TX	ζ.	SS/FFP	AMCOM	Dec 07	Oct 09	108	3084	NA		Mar-06
FY 2009	LMMFC Dallas, TX	ζ.	SS/FFP	AMCOM	Dec 08	Aug 10	108	3084	NA		Apr-08
FY 2010	LMMFC Dallas, TX	ζ.	SS/FFP	AMCOM	Dec 09	Aug 11	58	3482	NA		Mar-09
FY 2011	LMMFC Dallas, TX	ζ.	SS/FFP	AMCOM	Dec 10	Aug 12	78	3149	NA		Mar 10

REMARKS: LMMFC - Lockheed Martin Missiles and Fire Control

SS - Sole Source

FFP - Firm Fixed Price

AMCOM - US Army Aviation and Missile Command

		F	Y 08 /	09 BU	DGET	PRO	DUC	TIO	N SCH	IEDU	LE			P-1 ITE PATRIC									Dat	te:	Februa	ry 2010				
	C	OST 1	ELEM	IENTS							Fiscal '	Year 0	3										Fiscal Y	Zear 09)					
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	ır Year 0	8								Caler	ıdar Yea	ar 09				
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
Mis	sile Har	lware	ı	I							·			-					ı	ı	ı						ı			1
1	FY 08	A	108	0	108			A																						108
1	FY 08	FMS	24	0	24			A																						24
1	FY 09	A	108	0	108															A										108
	FY 09	FMS	64	0	64															A										64
1	FY 10	0 FMS 96 0 96 0 96 0 1 A 78 0 78 0 78																									58			
	FY 10	(10 FMS 96 0 96) (10 FMS 96 0 96) (11 FMS 128 0 128)																									96			
	FY 10	10 FMS 96 0 96 11 A 78 0 78 11 FMS 128 0 128																									96			
	FY 11	A 78 0 78																									78			
_	FY 11																													128
1	FY 11	FMS	96	0	96																									96
Tot	ıl				856																									856
			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	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	
							,	C	11	Б	K	K		-11	L	-	1	-	,		11	В	K	K	1		L	G	-	
M								PRODU	ICTION I	RATES						A	DMIN I	EAD T	IME		MFR		TOTA	AL	REMA	RKS				
F											Reac	hed M	FR				or 1 Oct	-	r 1 Oct	4	ter 1 Oct	:	After 1		FY08=	German				Missiles)
R			Nan	ne - Locati	on		N	MIN	1-8-5	MAX	D-	_	_	itial			19		2		23		25			C-3 Mis		irates (U	AE) FN	1S Case
1	LMMI	C, Dall	as, TX					6	20	30			Re	eorder			6		2		20		22					ase (96 l		lissiles) 3 Missiles)
													In	itial														Case (96)		
									Re	eorder											Missile		on EMS	Coso (04	DAC 3	3 Missiles)				
									In	itial											11113	70–1 aiw	an rwis	Case (90	rac	iviissiies)				
								1					Re	eorder											1					
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		F	Y 10 /	11 BU	DGET	PRO	DUC	TION	N SCE	IEDU	LE			P-1 ITEN PATRIO									Dat	e:	Februa	ry 2010				
	C	OST 1	ELEN	IENTS	}						Fiscal `	Year 10	0										Fiscal Y	ear 11	l					
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year 1	10								Calen	ıdar Yea	ar 11				
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	U	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	Later
Mi	sile Har	dware	1	l			l																	l				-		ll
1	FY 08	A	108	0	108	14	12	12	12	12	12	8	;	8 8	10															0
1	FY 08	FMS	24	0	24									8 8	8															0
1	FY 09	A	108	0	108											10	8	8	8	8	8	8	12	8	12	8	10			0
1	FY 09	FMS	64	0	64																		8	12	16	12	16			0
1	FY 10	A	59	1	58			A																				4	4	50
1	FY 10	FMS	96	0	96			A																				8	8	80
1	FY 10	FMS	96	0	96			A																				8	8	80
1	FY 11	A	78	0	78															A										78
1	FY 11	FMS	128	0	128															A										128
1	FY 11	FMS	96	0	96															A										96
Tot	a1				856	14	12	12	12	12	12	8	16	16	18	10	8	8	8	8	8	8	20	20	28	20	26	20	20	512
100	aı		1		030	О	N	D	J	F	M	A	M	J	J	A	S	0	N	D	J	F	M	A	M	J	J	A	S	312
						C T	O V	E C	A N	E B	A R	P R	A Y		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	
M]	PRODU	CTION	RATES						A	ADMIN I	LEAD T	IME		MFR		TOTA	AL	REMA					
F											Reac	hed	IFR			Pri	or 1 Oct	Afte	r 1 Oct	Aft	er 1 Oct		After 1	Oct	FY08= FY09=	German United A	y FMS C Arab Em	Case (24 irates (U	PAC-3 AE) FN	Missiles) IS Case
R			Nan	ne - Locati	on		N	MIN	1-8-5	MAX	D-	+	1 I	nitial			19		2		23		25		(64 PA	C-3 Mis	siles)			
1	LMMI	C, Dall	as, TX					6	20	30			F	Reorder			6		2		20		22			96=UAE 96=Taiw				lissiles) 3 Missiles)
													I	nitial												128=UA	E FMS (Case (12)	B PAC-	3
													I	Reorder											Missile FY11 9		an FMS	Case (96	5 PAC-3	3 Missiles)
													I	nitial																
													-	Reorder				<u> </u>							_					
													-	nitial				<u> </u>							1					
													-	Reorder		_		1							-					
	1												-	nitial		_		1							1					
												1	F	Reorder				1		1										

		F	Y 12 /	13 BU	DGET	PRC	DUC	TIO	N SCI	IEDU	LE			P-1 ITEM PATRIO									Dat	te:	Februa	ry 2010				
	C	OST 1	ELEM	IENTS							Fiscal	Year 1	2										Fiscal Y	ear 13	3					
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year 1	12								Caler	ıdar Yea	ar 13				
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	A 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	Later
Mis	sile Har	lware		I.			Į.		·	l									ı	L										
1	FY 08	A	108	108																										0
1	FY 08	FMS	24	24																										0
1	FY 09	A	108	108																										0
1	FY 09	FMS	64	64																										0
-	FY 10	A	59		50	6	8	4	4	4	6	:	8	4 4	2															0
-	FY 10	FMS							8	:	8	8 8	8															0		
-+	FY 10	FMS	96 16 80 8 8 4 4 8 78 0 78							8	;	8	8 12	12															0	
-	FY 11	A		78 0 78												6	8	4	8	8	4	8	8	4	8	8	4			0
\vdash	FY 11	FMS	128	28 0 128									_		12	12	12	12	8	12	12		12		8	8			0	
1	FY 11	FMS	96	0	96											8	8	8	8	4	4	8	8	8	8	12	12			0
														-																
Tota	ıl				512	22	24	16	16	20	22	24	20	24	22	26	28	24	28	20	20	28	28	24	24	28	24			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	A A Y	U	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	
								I				ı		ı	I				ı	ı					I					
M							I	PRODU	CTION	RATES						A	DMIN I	EAD T	IME		MFR		TOTA	AL	REMA					
F											Reac	hed N	/IFR			Pri	or 1 Oct	Afte	r 1 Oct	Aft	ter 1 Oct		After 1	Oct	FY08=	German United A	y FMS (Case (24	PAC-3	Missiles)
R			Nan	ne - Locati	on		N	MIN	1-8-5	MAX	D-	+	1	nitial			19		2		23		25		(64 PA	C-3 Mis	siles)			
1	LMMI	℃, Dall	as, TX					6	20	30]	Reorder			6		2		20		22			96=UAE 96=Taiw				lissiles) 3 Missiles)
]	nitial											FY11 1	128=UA					
]	Reorder											Missile FY11		an FMS	Case (96	5 PAC-	3 Missiles)	
]	nitial]					,,
]	Reorder																					
]	nitial																
]	Reorder																
													1	nitial											1					
	1												Reorder		1															

Exhibit P-40, Budget Item J	Justification	Sheet							oate:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Other					P-1	Item Nomencla Surface-Lau	ture inched AMRAAM Sy	ystem Summary: (Ca	31001)		
Program Elements for Code B Items:		Code:	Oth		ited Program PE 0604802A, Pr	Elements: oject S23; Adv Proc	C81001				
	Prior Years	FY 2009	FY 2010) [FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty											
Gross Cost	30.3		4	0.3	116.7	83.3	273.3	281.1	264.3		1089.4
Less PY Adv Proc			4	0.3							40.3
Plus CY Adv Proc		40.3									40.3
Net Proc P1	30.3	40.3			116.7	83.3	273.3	281.1	264.3		1089.4
Initial Spares											
Total Proc Cost	30.3	40.3			116.7	83.3	273.3	281.1	264.3		1089.4
Flyaway U/C											
Weapon System Proc U/C			•								

The Surface Launched Advanced Medium Range Air-To-Air Missile (SLAMRAAM) is a critical component of the Army's future Integrated Air & Missile Defense (IAMD) system. SLAMRAAM consists of launcher platforms employing the proven AIM-120-C7 Advanced Medium Range Air-to-Air Missile; Integrated Fire Control Station (IFCS) command, control, and communications platforms; and Improved Sentinel Radars. SLAMRAAM is a day or night, adverse weather, non-line-of-sight system that counters cruise missiles (CM), unmanned aerial vehicle (UAV), fixed wing, and rotary wing threats. SLAMRAAM is mobile and able to operate in a variety of combat situations to protect maneuver forces and strategic-level critical assets. SLAMRAAM represents a substantial increase in performance over current short range air defense systems.

Justification:

FY11 Base procurement dollars in the amount of \$116.732 million supports 6 improved platforms for enhanced crew protection, 9 Integrated Fire Control Stations (IFCS), and associated recurring support costs.

NOTE: FY11 funding procures all required IFCS systems so the Army does not have to incur production overhead cost over multiple years. IFCS is an interim solution. IFCS will be replaced by the Integrated Battle Command System (IBCS) in FY16.

Exhibit P-40, Budget Item J	Justification	Sheet							I	Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Other					P	1 Item Nomer Surface		ture nched AMRAAM L	auncher (C81002)			
Program Elements for Code B Items:		Code:		Other Re	elated Program	n Elements:						
	Prior Years	FY 2009	FY 2	2010	FY 2011	FY 2012		FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty						5	9	48	49	45		157
Gross Cost				40.3	116.	7 8	3.3	233.8	241.7	248.9		964.7
Less PY Adv Proc				40.3								40.3
Plus CY Adv Proc		40.3										40.3
Net Proc P1		40.3			116.	7 8	3.3	233.8	241.7	248.9		964.7
Initial Spares												
Total Proc Cost		40.3			116.	7 8	3.3	233.8	241.7	248.9		964.7
Flyaway U/C												
Weapon System Proc U/C					19.	5	9.3	4.9	4.9	5.5		44.0

The Surface Launched Advanced Medium Range Air-To-Air Missile (SLAMRAAM) is a critical component of the Army's future Integrated Air & Missile Defense (IAMD) system. SLAMRAAM consists of launcher platforms employing the proven AIM-120-C7 Advanced Medium Range Air-to-Air Missile; Integrated Fire Control Station (IFCS) command, control, and communications platforms; and Improved Sentinel Radars. SLAMRAAM is a day or night, adverse weather, non-line-of-sight system that counters cruise missiles (CM), unmanned aerial vehicle (UAV), fixed wing, and rotary wing threats. SLAMRAAM is mobile and able to operate in a variety of combat situations to protect maneuver forces and strategic-level critical assets. SLAMRAAM represents a substantial increase in performance over current short range air defense systems.

Justification:

C81002 Launcher Procures:

FY11 procures 6 improved platforms for enhanced crew protection, 9 Integrated Fire Control Stations (IFCS), and associated recurring support costs.

NOTE: FY11 funding procures all required IFCS systems so the Army does not have to incur production overhead cost over multiple years. IFCS is an interim solution. IFCS will be replaced by the Integrated Battle Command System (IBCS) in FY16.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 /	Other n			omenclature: d AMRAAM Lau	ncher (C81002)		Weapon Syste	em Type:	Date:	February 2010
MSLS		ID	•	FY 09			FY 10	•		FY 11	
Cost Elemen	ts	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Non-Recurring Engineering											
IFCS NRE											
Launcher NRE									11952	:	
Production Base Support											
IFCS Refurbishment											
Launcher Refurbishment											
Total Non Recurring Engineering									11952	:	
Recurring Production Hardware											
Launcher Manufacturing									36000	6	6000
IFCS Manufacturing									42000	9	4667
Recurring Engineering											
Sustaining Tooling											
Quality Control											
Engineering Change Proposals											
Government Furnished Equipment											
Total Hardware Cost									78000		
Weapons Support Cost											
System Test and Evaluation											
System Engineering/Program Management									22080		
Training Equipment											
Data											
Software, Contractor Log Spt, Engr Svcs									2700		
Support Equipment									2000		
Fielding/Spares											
Total Weapons Support Cost									26780		
Less PY Advanced Procurement						40349					
Plus CY Advanced Procurement			40349								
Total:			40349			40349			116732	:	

Item No. 2 Page 3 of 5 Page 10 of 122 Exhibit P-5 Weapon System Cost Analysis

Exhibit P-5a, Budget Procurement Histor	y and Planning							ate: ebruary 2	2010	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army/ 2/ Other missiles	Weapon System Type:	P-1 Line Item Surface-Launc	Nomenclature: thed AMRAAM Launcher (C8)	1002)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Launcher Manufacturing FY 2011	Raytheon Tewksbury, MA	SS/FPI*	AMCOM***	Jan 11	Jun 12	6	6000			Jun-11

REMARKS: *SS/FPI - Sole Source/Fixed Price Incentive **SS/FFP - Sole Source/Firm Fixed Price

***AMCOM - Aviation and Missile Command

Note: Low Rate Initial Production (LRIP) produces Launchers and IFCS. Additionally LRIP assets will be utilized to support Initial Operational Test & Evaluation (IOTE). Funds have been set aside to refurbish those LRIP launchers and LRIP IFCS used in support of IOTE.

The Non-recurring costs on the P-5 include the test equipment, special tooling, production line set-up, fab assembly and installation of tools.

	FY 11 / 12 BUDGET PRODUCTION SCHEDULE COST ELEMENTS Fiscal Year													P-1 ITEN Surface-				ıncher (C81002)			Dat	te:	Februa	ry 2010					
	C	OST I	ELEN	IENTS							Fiscal Y	ear 11	l										Fiscal Y	ear 12	2						
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	ır Year 1	1								Calen	ıdar Yea	ar 12					
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later	
Lau	ncher M	anufactu	ıring	l						L	I.											Į					Į	Į			
1	FY 11	A	6	0	6				A																	1	1	2	2	0)
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Tota	1				6																					1	1	2	2		-
100						O C	N O	D E C	J A	F E B	M A	A P	M A Y		J U	A U	S E P	O C T	N O	D E C	J A N	F E B	M A R	A P	M A Y	J U	J U	A U G	S E		-
						T	V	С	N	В	R	R	Y	N	L	G	P	T	V	С	N	В	R	R	Y	N	L	G	P		╛
M							1	PRODU	JCTION I	RATES							DMIN I			_	MFR		TOTA		REMA	RKS					
F												ned M				Pric	or 1 Oct	+	r 1 Oct	Af	ter 1 Oct		After 1		_						
R				ne - Locati	on		ı	MIN	1-8-5	MAX	D+	-	-	nitial			0	+	3		18		21								
1	Raythe	on, Tew	ksbury,	MA				1	4			-		eorder			0		3		18		21								
													-	nitial											-						
											Reord														1						
										Reorde								-													
										Initial						+		1							1						
											Reorder														1						
													Iı	nitial											1						
													R	eorder						1					1						

Exhibit P-40, Budget Item J	Justification	Sheet]	Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Othe					P-1 Item Nomencla Surface-La	ature unched AMRAAM S	System Summary: (C	(81001)		
Program Elements for Code B Items:		Code:	Othe		gram Elements: 2A, Project S23, Advance	Procurement				
	Prior Years	FY 2009	FY 2010	FY 201	1 FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty										
Gross Cost			40	.3						40.3
Less PY Adv Proc			40	.3						40.3
Plus CY Adv Proc		40.3								40.3
Net Proc P1		40.3								40.3
Initial Spares										
Total Proc Cost		40.3								40.3
Flyaway U/C										
Weapon System Proc U/C										

The Surface Launched Advanced Medium Range Air-To-Air Missile (SLAMRAAM) is a critical component of the Army's future Integrated Air & Missile Defense (IAMD) system. SLAMRAAM consists of launcher platforms employing the proven AIM-120-C7 Advanced Medium Range Air-to-Air Missile; Integrated Fire Control Station (IFCS) command, control, and communications platforms; and Improved Sentinel Radars. SLAMRAAM is a day or night, adverse weather, non-line-of-sight system that counters cruise missiles (CM), unmanned aerial vehicle (UAV), fixed wing, and rotary wing threats. SLAMRAAM is mobile and able to operate in a variety of combat situations to protect maneuver forces and strategic-level critical assets. SLAMRAAM represents a substantial increase in performance over current short-range air defense systems.

Justification:

FY09 procures long lead items for nine IFCS and Nonrecurring Engineering (NRE). This funding represents advance procurement for production.

IFCS is an interim solution awaiting IBCS. The Army's intent is to purchase the minimum necessary to fill the gap between initial SLAMRAAM fielding and the introduction of IBCS. Program procures all required IFCS systems in FY11 along with the six launchers, so the Army does not have to incur production overhead cost over multiple years.

Advance Procurement Requir	ement	s Anal	ysis-Fundiı	ng (P-10A)	First System	Award Date:	First Sys	tem Completion Da	te:	Date:	ebruary 2010	
Appropriation / Budget Activity / Serial No: Missile Procurement, Army / 2 / Othe	er missiles						P-1 Line	Item Nomenclature Surface-Launch	/ Weapon System ned AMRAAM Sys			
							(\$ in Millio	ns)				
	PLT (mos)	When Rqd (mos)	Pr Yrs	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	To Comp	Total
End Item Quantity												
GFE IFCS	18	12		6.4								6.4
IFCS Equipment	18	12		4.1								4.1
iFCS Factory Start Up/Tooling/TE/Mfg Data Package	18	12		16.5								16.5
IFCS Electronics	18	12		13.3								13.3
Total Advance Procurement			0.0	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.3

FY09 procures long lead items for nine IFCS and Nonrecurring Engineering (NRE).

Advance Procurement Requirements Analysis-Funding (P-10B)					Date: February 20	10
Appropriation / Budget Activity / Serial No: Missile Procurement, Army / 2 / Other missiles		P-1 Line Item Nomencla Surface-Lau	ture / Weapon System: nched AMRAAM System	Summary:		
			2)	\$ in Millions)		
					2011	
	PLT (mos)	Quantity Per Assembly	Unit Cost	Qty	Contract Forecast Date	Total Cost Request
GFE IFCS	18	1	0.7			
IFCS Equipment	18	1	0.5			
iFCS Factory Start Up/Tooling/TE/Mfg Data Package	18	1	1.8			
IFCS Electronics	18	1	1.5			
Total Advance Procurement						

FY09 procures long lead items for nine IFCS and Nonrecurring Engineering (NRE).

Exhibit P-40, Budget Item J	Justification	Sheet					I	Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Othe				P	-1 Item Nomencl	ature E SYS SUMMARY (C70000)			
Program Elements for Code B Items:		Code:	Other	Related Program PE 0203802A,	m Elements: Projects 781 and 783	5; C71500				
	Prior Years	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	53650	2670	216	5 210	06					60591
Gross Cost	2485.9	253.1	227.	1 222.	3		90.2	87.4		3366.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	2485.9	253.1	227.	1 222.	3		90.2	87.4		3366.2
Initial Spares	5.7									5.7
Total Proc Cost	2491.6	253.1	227.	1 222.	3		90.2	87.4		3371.9
Flyaway U/C										
Weapon System Proc U/C	0.1	0.1		0.	1					0.3

The Laser HELLFIRE system family of air-to-ground missiles (all variants) provides attack helicopters and unmanned aircraft systems (UAS) with point-target precision strike capability to defeat heavy, advanced armor, individual hard point and non-traditional targets. HELLFIRE missiles use a semi-active laser terminal guidance and are the primary armament of the AH-64 Apache, OH-58 Kiowa Warrior, Army UAS and Special Operations aircraft. The HELLFIRE II includes Electro-Optical Countermeasure capability, warhead improvements and an updated electronic fuze. HELLFIRE procurement funding supports the entire HELLFIRE system to include resolution of obsolescence, safety, reliability, weapon integration activities, engineering changes and production issues. As the result of requests from commanders in the field, engineering changes are being made to the Hellfire missile to regain warhead lethality and increase the engagement envelope. This missile will be compatible on all current force Unmanned Aircraft Systems (UAS) and rotary wing platforms and has been designated the Hellfire AGM-114R (Romeo) missile. The AGM-114R HELLFIRE missile will be the single variant that replaces all other HELLFIRE legacy missile configurations (K/N/M/P).

Justification:

FY2011 Base procurement dollars in the amount of \$31.881 million supports the procurement of 240 HELLFIRE missiles.

FY2011 OCO procurement dollars in the amount of \$190,460 million supports the procurement of 1866 HELLFIRE missiles.

FY2011 engineering support includes funding for program support costs and implementation costs for the addition of the Health Monitoring Unit (HMU) and Height of Burst (HOB) functionality into the HELLFIRE R model missile system and also supports the implementation of other producibility changes that address obsolescence issues.

Exhibit P-40, Budget Item J	ustification	Sheet							Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Othe					P-1	Item Nomencla	nture LLLFIRE MSL (BAS	IC/IHW/HFII) (C70)	100)		
Program Elements for Code B Items:		Code:	Oth	er Related l		Elements: jects 781; C71500					
	Prior Years	FY 2009	FY 2010	FY	2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	53650	2670	2	165	2106						60591
Gross Cost	2485.9	253.1	22	7.1	222.3			90.2	87.4		3366.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	2485.9	253.1	22	7.1	222.3			90.2	87.4		3366.2
Initial Spares	5.7										5.7
Total Proc Cost	2491.6	253.1	22	7.1	222.3			90.2	87.4		3371.9
Flyaway U/C											
Weapon System Proc U/C	0.0	0.1		0.1	0.1						0.4

The Laser HELLFIRE system family of air-to-ground missiles (all variants) provides attack helicopters and unmanned aircraft systems (UAS) with point-target precision strike capability to defeat heavy, advanced armor, individual hard point and non-traditional targets. HELLFIRE missiles use a semi-active laser terminal guidance and are the primary armament of the AH-64 Apache, OH-58 Kiowa Warrior, Army UAS and Special Operations aircraft. The HELLFIRE II includes Electro-Optical Countermeasure capability, warhead improvements and an updated electronic fuze. HELLFIRE procurement funding supports the entire HELLFIRE system to include resolution of obsolescence, safety, reliability, weapon integration activities, engineering changes and production issues. As the result of requests from commanders in the field, engineering changes are being made to the Hellfire missile to regain warhead lethality and increase the engagement envelope. This missile will be compatible on all current force Unmanned Aircraft Systems (UAS) and rotary wing platforms and has been designated the Hellfire AGM-114R (Romeo) missile. The AGM-114R HELLFIRE missile will be the single variant that replaces all other HELLFIRE legacy missile configurations (K/N/M/P).

Justification:

FY2011 Base procurement dollars in the amount of \$31.881 million supports the first full rate procurement of 240 AGM-114R HELLFIRE missiles. FY2011 OCO procurement dollars in the amount of \$190.460 million supports the procurement of 1866 AGM-114R HELLFIRE missiles.

Exhibit P-5, Weapon MSLS Cost Analysis

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army / 2 / Other missiles

P-1 Line Item Nomenclature:
LASER HELLFIRE MSL (BASIC/IHW/HFII) (C70100)

Weapon System Type:

Date:
February 2010

	141135He Froedreiheitt, 74 Hry / 2 /	Other i	missiles Little	X TILLLI II	KE MBE (B/IBIC)	mw/m n) (e/oi	.00)				1 corumy 2010
MSLS		ID		FY 09			FY 10			FY 11	
Cost Element	ts	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Flyaway Costs											
Hardware Costs - Recurring											
All-up Rounds			168622	2670	63	176140	2165	81	176052	2106	84
Gov Furn Eq (GFE) Explosives											
Gov Furn Eq (GFE) Containers											
Missile Conversions			7182								
Engineering Change Orders (ECO)											
Engineering Services			10182			3124			3492		
Fielding			5894			3253			3259		
Acceptance Testing			1101			574			575		
SUBTOTAL			192981			183091			183378		
Engineering Support											
Project Mgt Admin						11978			10151		
Production Engineering Support			30768			28202			28812		
SUBTOTAL			48284			40180			38963		
Non-Recurring											
Disposal of Tool/test Equipment											
Initial Production Facilitization (IPF)											
Rate tooling/Test Equipment			11859			3830					
Obsolescence											
SUBTOTAL			11859			3830					
Peculiar Support Equipment											
Environmental Protections											
Subtotal											
Gross P-1 End Item			253124			227101			222341		
Less: Prior Year Adv Proc											
Net P-1 Full Funding Cost											
Plus: P-1 Cy Adv Proc											
Other Non P-1 Costs											
Initial Spares											
Total:			253124			227101			222341		

Exhibit P-5a, Budget Procurement Histo	ry and Planning							ate: ebruary	2010	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army/ 2/ Other missiles	Weapon System Type:		Nomenclature: LFIRE MSL (BASIC/IHW/HFI	I) (C70100)			•			
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
All-up Rounds										
FY 2009	HELLFIRE Sys Limited Liability Orlando, FL	FFP	AMCOM, Redstone Arsenal, AL	Mar 09	Aug 11	2670	63	Yes		Oct 07
FY 2010	HELLFIRE Sys Limited Liability Orlando, FL	FFP	AMCOM, Redstone Arsenal, AL	May 10	Aug 12	2165	81	Yes		Oct 07
FY 2011	HELLFIRE Sys Limited Liability Orlando, FL	FFP	AMCOM, Redstone Arsenal, AL	May 11	May 13	2106	84	Yes		Oct 07

REMARKS: Firm Fixed Price (FFP)

The FY2011 production unit cost and quantities are based on all services base and OCO funding requirements known at this time.

		FY 09 / 10 BUDGET PRODUCTION SCHEDULE COST ELEMENTS Fiscal Year 0												P-1 ITEN LASER	M NOME HELLFII			C/IHW/I	HFII) (C	70100)			Dat	te:	Februa	ry 2010				
	C	OST I	ELEM	IENTS	,						Fiscal '	Year 09	1										Fiscal Y	ear 10)					
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year 0	9								Calen	dar Yea	ar 10				
F R	FY	R V	Each	TO 1 OCT	AS OF 1 OCT	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	Later
All-	up Roui	ıds	I.	l.	<u> </u>		l			l			l		<u> </u>		1				l		1					I		<u> </u>
1	FY 09	A	2670	0	2670						A																			2670
1	FY 09	AF	1422	0	1422						A																			1422
1	FY 09	NA	1556	0	1556						A																			1556
1	FY 09	FMS	420	0	420											A														420
1	FY 10	A	2165	0	2165																				A					2165
	FY 10	AF	1028	0	1028																				A					1028
1	FY 10	NA	1094	0	1094																				A					1094
	FY 11	A	2106	0	2106																									2106
	FY 11	AF	927	0																										927
1	FY 11	NA	1108	0	1108																									1108
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	HELLI	FIRE Sy	s Limite	d Liability	, Orlando	, FL		64	340	600	9		-	order			5	+	3		24		27							
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All	up Rour	nds		ı			ı					ı	1																	
1	FY 09	A	2670	0	2670											10	205	255	208	175	157	60	360	340	320	342	238			0
1	FY 09	AF	1422	0	1422											10	175	200	191	156	55	77	90	110	109	80	169			0
1	FY 09	NA	1556	0	1556											10	124	73	129	197	316	392	77	77	78	56	27			0
1	FY 09	FMS	420	0	420																			10	10	30	80	50	70	170
1	FY 10	A	2165	0	2165																							230	230	1705
1	FY 10	AF	1028	0	1028																							121	124	783
1	FY 10	NA	1094	0	1094																							103	78	913
1	FY 11	A	2106	0	2106									A																2106
1	FY 11	AF	927	0	927									A																927
1	FY 11	NA	1108	0	1108									A																1108
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F											Read	hed M	FR			Prio	r 1 Oct	After	1 Oct	Aft	er 1 Oct		After 1	Oct						
R			Nan	ne - Locati	on		1	MIN	1-8-5	MAX	D	+	1 In	tial			6		3		24		27							
1	HELLI	FIRE Sy	s Limite	d Liability	, Orlando	, FL		64	340	600	9)	Re	order			5		3		24		27							
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		F	Y 13 /	14 BU	DGET	PRO	DUC	TION	N SCE	IEDU	LE			P-1 ITEM LASER I				C/IHW/I	HFII) (C	70100)			Dat	e:	Februa	ry 2010				
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All	up Rour	ıds																												
1	FY 09	A	2670	2670																										0
1	FY 09	AF	1422	1422																										0
1	FY 09	NA	1556	1556																										0
1	FY 09	FMS	420	250	170	80	90																							0
1	FY 10	A	2165	460	1705	226	202	226	257	257	269	268																		0
	FY 10	AF	1028	245		102	104	129	117	118	88	125																		0
\vdash	FY 10	NA	1094	181		100	96	139	152	151	159	116																		0
	FY 11	A	2106	0	2106								216		196	191	186	181	170	165	160	155	150	135						0
-	FY 11	AF	927	0									117	102	97	92	87	82	72	67	62	58	53	38						0
1	FY 11	NA	1108	0	1108								132	117	112	107	102	97	87	83	78	73	68	52						0
Tot	al				7712	508	492	494	526	526	516	509	465	420	405	390	375	360	329	315	300	286	271	225						
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R			Nam	ne - Locati	on		N	MIN	1-8-5	MAX	D-	+]	Init	ial			6		3		24		27							
1	HELLI	TRE Sy	s Limited	d Liability	, Orlando	, FL		64	340	600	9		Red	order			5		3		24		27							
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Exhibit P-40, Budget Item J	Justification	Sheet					I	Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Othe				P-1	l Item Nomencla JAVELIN (nture AAWS-M) SYSTEM	A SUMMARY (CCC	0007)		
Program Elements for Code B Items:		Code:	Other	Related Program CC1000	Elements:					
	Prior Years	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	22693	1320	126	5 715	710	495	520	550		28268
Gross Cost	3491.2	367.9	258.	6 163.9	136.1	108.9	114.7	120.8		4762.0
Less PY Adv Proc	100.6									100.6
Plus CY Adv Proc	100.6									100.6
Net Proc P1	3491.2	367.9	258.	6 163.9	136.1	108.9	114.7	120.8		4762.0
Initial Spares	22.6									22.6
Total Proc Cost	3513.7	367.9	258.	6 163.9	136.1	108.9	114.7	120.8		4784.6
Flyaway U/C	0.1	0.3	0.	2 0.2	0.2	0.2	0.2	0.2		1.7
Weapon System Proc U/C	0.2	0.3	0.	2 0.2	0.2	0.2	0.2	0.2		1.7

Javelin provides the US Army and USMC a man-portable, fire-and-forget, medium-range missile with enhanced situational awareness and precision direct-fire effects to defeat armored vehicles, fortifications, and soft targets in full spectrum operations. Javelin has a high kill rate against a variety of targets at extended ranges under day/night, battlefield obscurants, adverse weather and multiple counter-measure conditions. The system's soft launch feature permits firing from a fighting position or an enclosure. Javelin uses a modular design to allow the system to evolve to meet changing threats and requirements via both software and hardware upgrades. The system consists of a reusable Command Launch Unit (CLU) with a built-in-test (BIT), and a modular missile encased in a disposable launch tube assembly. The system also includes training devices for tactical training and classroom training. Javelin's fire-and-forget technology allows the gunner to fire and immediately take cover, to move to another fighting position, or to reload. The Javelin provides enhanced lethality through the use of a tandem warhead which will defeat all known armor threats. It is effective against both stationary and moving targets. This system also provides defensive capability against attacking/hovering helicopters. The performance improvements in current production Javelin Block I CLUs are: increased target identification range, increased surveillance time with new battery and software management of the on time, and external RS-170 interface for video output. The performance improvements in current production Javelin Block I missiles are: increased probability of hit/kill at 2500m, improved warhead lethality, and reduced time of flight. In current conflicts the CLU is being used as a stand-alone surveillance and target acquisition asset. The Army is the lead for this joint program with the USMC.

Justification:

FY 11 Base procurement dollars in the amount of \$163,929 million supports the procurement of 715 Rounds and 386 CLU Retrofits.

The Army intends to buy to budget in order to leverage off other procurements for any price advantage created through contract negotiation, other service procurement, and/or foreign military sales (FMS).

"Proc Qty" above represents the Rounds only, but the dollars include the cost of the Rounds, CLUs, and training devices.

Flyaway Unit Cost is calculated by dividing the dollars for the Rounds and CLUs by the Rounds quantity.

Weapon System Unit Cost is calculated by dividing the dollars for the Rounds, CLUs, and training devices by the Rounds quantity.

Both unit cost calculations exclude the initial spares cost.

Item No. 5 Page 1 of 9 Page 23 of 122 Exhibit P-5, Weapon MSLS Cost Analysis

Appropriation/Budget Activity/Serial No:
Missile Procurement, Army / 2 / Other missiles

P-1 Line Item Nomenclature:
JAVELIN (AAWS-M) SYSTEM SUMMARY (CC0007)

Weapon System Type:
February 2010

	Wissie Froedichicit, Army / 27	Other ii	industries UTT V ES	2111 (111111	5 111/ 5 15 12 11 5	OMMINICI (CCO	307)				1 cordary 2010
MSLS		ID		FY 09			FY 10			FY 11	
Cost Elemen	ts	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Missile Hardware - Recurring											
All Up Round			166816	1320	126	163627	1265	129	102006	715	143
Engineering Services			7265			14747			15001		
Engineering Change Orders			167			164			102		
Acceptance Testing			2158			1616			902		
Fielding			29			28			16		
Subtotal Missile Hardware			176435			180182			118027		
Procurement Support											
Project Management			10019			10009			10294		
Production Engineering			6679			6672			6862		
Publications/Technical Data			62			63			64		
Subtotal Procurement Support			16760			16744			17220		
Command & Launch Hardware											
Command Launch Unit			130622	920	142						
Engineering Services			7265								
Engineering Change Orders			127								
Fielding			1683								
CLU Retrofits						35502	486	73	28682	386	74
Subtotal C&L Hardware			139697			35502			28682		
Training Devices											
Field Tactical Trainer-Student Station			26520	270	98	18938	183	103			
Basic Skills Trainer			3571	40	89	4802	53	91			
Missile Simulation Round			1700	1128	2						
Fielding			3205			2385					
Subtotal Training Devices			34996			26125					
Gross P-1 End Cost			367888			258553			163929		
Less: Prior Year Adv Proc											
Net P-1Full Funding Cost											
Plus P-1 CY Adv. Proc.											
Initial Spares											
Total:			367888			258553			163929		

Exhibit P-5a, Budget Procurement H	istory and Planning							ate: ebruary	2010	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army/ 2/ Other missiles	Weapon System Type:		Nomenclature: AWS-M) SYSTEM SUMMA	ARY (CC0007)			1			,
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
All Up Round										
FY 2006	JV/All Up Round Tucson, AZ/Orlando, FL	SS/FP	AMCOM, Redstone Arsenal, AL	Aug 06	Nov 08	199	126	Yes		
FY 2007	JV/All Up Round Tucson, AZ/Orlando, FL	SS/FP	AMCOM, Redstone Arsenal, AL	Jul 07	Apr 09	250	133	Yes		
FY 2008	JV/All Up Round Tucson, AZ/Orlando, FL	SS/FP	AMCOM, Redstone Arsenal, AL	May 08	Jan 11	1320	111	Yes		
FY 2009	JV/All Up Round Tucson, AZ/Orlando, FL	SS/FP	AMCOM, Redstone Arsenal, AL	Jun 09	Jun 11	1320	126	Yes		
FY 2010	JV/All Up Round Tucson, AZ/Orlando, FL	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 10	Feb 12	1265	129	Yes		
FY 2011	JV/All Up Round Tucson, AZ/Orlando, FL	SS/FP	AMCOM, Redstone Arsenal, AL	Jan 11	Jan 13	715	143	Yes		
Command Launch Unit										l
FY 2007	JV/CLU Tucson,AZ/Orlando,FL	SS/FP	AMCOM, Redstone Arsenal, AL	Jul 07	Sep 08	859	123	Yes		
FY 2008	JV/CLU Tucson,AZ/Orlando,FL	SS/FP	AMCOM, Redstone Arsenal, AL	May 08	Mar 10	604	140	Yes		
FY 2009	JV/CLU Tucson,AZ/Orlando,FL	SS/FP	AMCOM, Redstone Arsenal, AL	Jun 09	May 11	920	142	Yes		

REMARKS: Joint Venture (JV), Sole Source/Fixed Price (SS/FP), Aviation and Missile Command (AMCOM) Unit costs are dependent on the quantity procured at one time.

		F	Y 09 /	10 BU	DGET	PRO	DUC	TION	SCE	IEDU	LE			P-1 ITEN JAVELI				SUMM.	ARY (C	C0007)			Dat	te:	Februa	ry 2010				
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		S	PROC	ACCEP										Calenda	r Year ()9								Calen	ıdar Yea	ır 10				
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All Up		ıd											•																	
1 FY		A	199	0	199		110	89																						0
1 FY	_	A	250	0	250							110	11																	0
1 FY	07	FMS	160	0										160																0
1 FY		A	1320	0																										1320
1 FY		MC	75	0																										75
1 FY		FMS	828	0																					110	110	110	110	110	
1 FY		A	1320	0										A																1320
1 FY		MC	230	0	230												A													230
1 FY		FMS	109	0													A													109
1 FY		A	1265	0																		A								1265
1 FY	1	A	715	0	715																									715
Comma 2 FY					702	7.5	77	70	70	72	70	70	_	2 72	71	70				I		I	l	1	l	I	I			
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_		MC	38	0														38												0
2 FY2 FY		A	604	0	604																		60	60	60	60	60	60	60	
-		FMS	920	0										 																920
2 FY2 FY		A FMS	20	0										A																20
2 F Y	09	FMS	20	0	20	0	N	D	J	F	M	A	M	J	J	A	A S	0	N	D	J	F	M	A	M	T	J	A	S	20
						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	
M							I	PRODU	CTION	RATES	_						DMIN I	_			MFR		TOTA	AL	REMA	RKS				ļ
F												hed M	FR			Prio	or 1 Oct	Afte	r 1 Oct	Aft	ter 1 Oct		After 1	Oct						
R				e - Locati				MIN	1-8-5	MAX	D-	+	1 In	itial			11		3		22		25							
				on, AZ/O		L		110	540	670			Re	eorder			1		1		22		23							
2 JV	/CLU	J, Tucso	on,AZ/O	rlando,FL				10	70	80			2 In	itial			11		3		21		24							
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	CC)ST l	ELEM	IENTS]	Fiscal Yo	ear 09											Fiscal Y	ear 10)					
M		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	r Year ()9								Calen	dar Yea	r 10				
F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
						1	V	C	N	В	K	K	Y	N	L	G	Р	1	V	C	N	В	K	K	ĭ	N	L	G	P	
																													 	
Γota	ıl				8958	75	187	159	70	72	72	182	182	262	71	70		38					60	60	170	170	170	170	170	6548
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M]	PRODU	CTION	RATES						A	DMIN I	EAD T	IME		MFR		TOTA	AL	REMA	RKS				
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2	JV/CLU	J, Tucs	on,AZ/O	rlando,FL				10	70	80		2	Ini	tial			11		3		21		24							
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	CO	OST I	ELEM	ENTS							Fiscal '	Year 11											Fiscal Y	ear 12						
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F R	FY	R V	Units	TO 1 OCT	AS OF 1 OCT	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	Later
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		A	199	199																										0
1 FY	7 07	A	250	250																										0
	7 07	FMS	160	160																										0
1 FY	08	A	1320	0	1320				110	110	110	110	110		110	110	110	110	110	110										0
	7 08	MC	75	0									75																	0
		FMS	828	550		110	110	58																						0
1 FY		A	1320	0										110	110	110	110	110	110	110	110	110	110	110	110					0
		MC	230	0	230												19	19	19	19	19	19	19	19	19			21		0
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	FY 09	A	1320	1320																									<u> </u>	0
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Exhibit P-40, Budget Item J	Instification	Sheet					I	Date:		
2	usulluu u								February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Othe				P-1	Item Nomencla TOW 2 SYS	iture STEM SUMMARY	(C59300)			
Program Elements for Code B Items:		Code:	Other	Related Program Adv Proc C5930						
	Prior Years	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	151842	9022	1849	1200	1025	1270	1233	2687		170128
Gross Cost	2621.8	404.3	141.9	143.1	77.3	123.6	148.4	205.8		3866.3
Less PY Adv Proc	87.5	10.0			22.4	35.8	37.1	59.2		252.0
Plus CY Adv Proc	97.5			48.4	38.4	32.4	35.4	Į.		252.0
Net Proc P1	2631.8	394.3	141.9	191.4	93.3	120.1	146.7	146.6		3866.3
Initial Spares										
Total Proc Cost	2631.8	394.3	141.9	191.4	93.3	120.1	146.7	146.6		3866.3
Flyaway U/C										
Weapon System Proc U/C	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.1		0.7

TOW missiles (BGM-71 Series) are combat proven missiles that provide heavy anti-armor/assault capability to the Army's Infantry Brigade Combat Teams (IBCT), the Stryker Brigade Combat Teams (SBCT), and the Bradley equipped Heavy Brigade Combat Team (HBCT). TOW continues to be used consistently in Operation Enduring Freedom (OEF) and Operation Iraqi Freedom (OIF) as the weapon of choice in precision combat engagements. TOW missiles are the primary heavy anti-armor / assault missile for the U.S. Marine Corps (USMC) and 43 allied nations. Warfighters employ TOW missiles against buildings and field fortifications taking advantage of the missile's inherent precise assault capability against such targets. The TOW missiles are launched from a variety of combat systems in the active Army and Army National Guard including the Improved Target Acquisition System (ITAS), all infantry and cavalry variants of Bradley Fighting Vehicle Systems (BFVS), the Stryker Anti-Tank Guided Missile (ATGM) Light Armored Vehicle (LAV), the M220A2 TOW 2 launcher, and the M901A1 Improved TOW Vehicles. The USMC employs the TOW missile from its ITAS launchers, ATGM - LAV, and AH-1W Cobra helicopters. The TOW missile provides the warfighter with a highly lethal, cost effective, interoperable, multi-purpose weapon.

Justification:

FY11 BASE procurement funding in the amount of \$78.681 million funds the first year of a five-year (FY11-15) multiyear contract for 6215 TOW missiles. This includes \$48.355 million in Advanced Procurement for Long Lead Items in FY11. The five year multiyear procurement keeps TOW missiles at the G3 critical requirement and maintains the supplier industrial base.

FY11 Overseas Contingency Operations (OCO) funding in the amount of \$112.768 million provides 1200 TOW missiles. The FY11 OCO replaces ARCENT combat expenditures and missiles deemed unserviceable due to damage, maintains the war fighting stockpile, and ensures a stable industrial base to meet any additional US or FMS requirements during a period of conflict of uncertain duration.

NOTES:

- 1. The Army intends to convert any price advantage created through contract negotiation, other service procurement, and/or foreign military sales into a buy-to-budget procurement strategy.
- 2. FY12-FY15 funding will be realigned in PB12 to reflect the multiyear contract profile as given in the multiyear exhibits.

Exhibit P-40, Budget Item J	Justification	Sheet					Γ	Date:		
)									February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Othe				P-1	Item Nomencla TOW Famil	ture ly of Missiles (C594)	03)			
Program Elements for Code B Items:		Code:	Other	Related Program	Elements:					
	Prior Years	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	151842	9022	184	9 1200	1025	1270	1233	2687		170128
Gross Cost	2621.8	404.3	141.	9 143.1	77.3	123.6	148.4	205.8		3866.3
Less PY Adv Proc	87.5	10.0			22.4	35.8	37.1	59.2		252.0
Plus CY Adv Proc	97.5			48.4	38.4	32.4	35.4			252.0
Net Proc P1	2631.8	394.3	141.	9 191.4	93.3	120.1	146.7	146.6		3866.3
Initial Spares										
Total Proc Cost	2631.8	394.3	141.	9 191.4	93.3	120.1	146.7	146.6		3866.3
Flyaway U/C										
Weapon System Proc U/C	0.0	0.0	0.	1 0.2	0.1	0.1	0.1	0.1		0.7

TOW missiles (BGM-71 Series) are combat proven missiles that provide heavy anti-armor/assault capability to the Army's Infantry Brigade Combat Teams (IBCT), the Stryker Brigade Combat Teams (SBCT), and the Bradley equipped Heavy Brigade Combat Team (HBCT). TOW continues to be used consistently in Operation Enduring Freedom (OEF) and Operation Iraqi Freedom (OIF) as the weapon of choice in precision combat engagements. TOW missiles are the primary heavy anti-armor / assault missile for the U.S. Marine Corps (USMC) and 43 allied nations. Warfighters employ TOW missiles against buildings and field fortifications taking advantage of the missile's inherent precise assault capability against such targets. The TOW missiles are launched from a variety of combat systems in the active Army and Army National Guard including the Improved Target Acquisition System (ITAS), all infantry and cavalry variants of Bradley Fighting Vehicle Systems (BFVS), the Stryker Anti-Tank Guided Missile (ATGM) Light Armored Vehicle (LAV), the M220A2 TOW 2 launcher, and the M901A1 Improved TOW Vehicles. The USMC employs the TOW missile from its ITAS launchers, ATGM - LAV, and AH-1W Cobra helicopters. The TOW missile provides the warfighter with a highly lethal, cost effective, interoperable, multi-purpose weapon.

Justification:

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FY11 Overseas Contingency Operations (OCO) funding in the amount of \$112.768 million provides 1200 TOW missiles. The FY11 OCO replaces ARCENT combat expenditures and missiles deemed unserviceable due to damage, maintains the war fighting stockpile, and ensures a stable industrial base to meet any additional US or FMS requirements during a period of conflict of uncertain duration.

NOTES:

- 1. The Army intends to convert any price advantage created through contract negotiation, other service procurement, and/or foreign military sales into a buy-to-budget procurement strategy.
- 2. FY12-FY15 funding will be realigned in PB12 to reflect the multiyear contract.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 /	Other m			omenclature: Missiles (C59403)	ı		Weapon System	т Туре:	Oate:	February 2010
MSLS		ID		FY 09			FY 10	•	·	FY 11	
Cost Elemen	ts	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Missile Non-Recurring											
Missile Contract - (CAPS)						9939			11167		
Missile Hardware - Recurring											
Missile Contract			38181	9022	42	124118	1849	67	112381	1200	94
Engineering Services			995	2		3689			12984		
Acceptance Testing			244	7		670			387		
Subtotal Missile Hardware			39421	5		138416			136919		
Engineering Support											
Project Mgt Admin			10130)		3517			6175		
Subtotal Engineering Support			1013)		3517			6175		
Total Flyaway			40434	5		141933			143094		
Gross P-1 End Cost											
Less: Prior Year Adv Proc			10000)							
Net P-1Full Funding Cost											
PLUS P-1 CY Adv. Proc.									48355		
Total:			39434	5		141933			191449		

Exhibit P-5a, Budget Procurement H	istory and P	lanning							ate: ebruary 2	2010	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army/ 2/ Other missiles		Weapon System Type:		Nomenclature: of Missiles (C59403)				· ·			
WBS Cost Elements:		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Missile Contract											
FY 2009	Raytheon Tucson, A	Z	MY2/FFP	AMCOM, Redstone Arsenal, AL	Nov 08	Jun 11	1581	42	Yes		
FY 2009	Raytheon Tucson, A	Z	OCO/FFP	AMCOM, Redstone Arsenal, AL	Jun 09	Mar 12	7441	42	Yes		
FY 2010	Raytheon Tucson, A	Z	MY2/FFP	AMCOM, Redstone Arsenal, AL	Nov 09	Nov 13	1165	67	Yes		
FY 2010	Raytheon Tucson, A	Z	OCO/FFP	AMCOM, Redstone Arsenal, AL	Jun 10	Jun 14	684	67	Yes		
FY 2011	Raytheon Tucson, A	Z	MY3/FFP	AMCOM, Redstone Arsenal, AL	Nov 10				EOQ		
FY 2011	Raytheon Tucson, A	Z	OCO/FFP	AMCOM, Redstone Arsenal, AL	Nov 10	Oct 14	1200	94	Yes		

REMARKS: Raytheon is currently the only industry source that is both facilitized and qualified to produce TOW missiles.

The FY11 OCO Unit Cost is higher than the FY10 Unit Cost because:

(1) the FY11 OCO is a single-year contract not associated with the previous multiyear contract AND

(2) the quantities procure only the Gen2 (CAPS) configuration.

The FY11 MY3/FFP BASE contract shows no delieverables because the FY11 BASE is the first year of the multiyear that procures only Long Lead Items.

AMCOM Aviation Missile Command

FFP Firm Fixed Price MY Multi-Year

OCO Overseas Contingency Operations

		F	Y 08 /	09 BU	DGET	PRO	DUC	TIO	N SCI	IEDU	LE				M NOME amily of N			5)					Date	e:	Februa	ry 2010				
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Mi	ssile Cor	tract	.	l		l l		.	I	Į. Į		l	1	<u> </u>	<u> </u>		l l	<u> </u>					<u> </u>			<u> </u>				<u> </u>
1	FY 07	A	949	0	949													418		531										0
1	FY 07	MC	1656	0	1656													18	50	100	200	225	350	400	313					0
1	FY 07	FMS	462	0	462																									462
1	FY 08	A	2301	0	2301		A																		243	600	600	600	212	46
1	FY 08	FMS	11180	0	11180														214											10966
1	FY 09	A	1581	0	1581														A											1581
1	FY 09	A	7441	0	7441																					A				7441
1	FY 09	MC	1487	0	1487																					A				1487
1	FY 09	FMS	3	0	3														A											3
1	FY 10	A	1165	0	1165																									1165
1	FY 10	A	684	0	684																									684
1	FY 11	A	1200	0	1200																									1200
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To	al				30109										+ -		_	436	264	631	200	225	350	400	556	600	600	600	212	25035
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	-												R	eorder											1960.					Kuwait
													I	nitial												Army: 90 Army Ba				3.
	<u> </u>												R	eorder											FY11 A	Army Ba	se: 0, O	CO: 120	0.	
	-												-	nitial											FY12-1	5 Army	1025, 1	1270, 12	33, 2687	7.
	-													eorder				-												
													-	nitial											1					
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		F	Y 10 /	11 BU	DGET	PRO	DUC	TIO	N SCH	IEDU	LE			P-1 ITEM FOW Fan				5)					Dat	te:	Februa	ry 2010				
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Advance Procurement Requirement	s Analysis-Fundi	ng (P-10A)	First System	Award Date: Dec-03	First S	rstem Completion D Apr-03	ate:	Date:	February 2010	
Appropriation / Budget Activity / Serial No: Missile Procurement, Army / 2 / Other missiles					P-1 Lii	e Item Nomenclatur TOW Family of	e / Weapon System: of Missiles			
					(\$ in Mill	ons)				
	When		•					•		

							(\$ in Million	is)				
	PLT (mos)	When Rqd (mos)	Pr Yrs	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	To Comp	Total
End Item Quantity						1025.0	1270.0	1233.0	2687.0			6215.0
Items	0	0										
Warhead	19	0				16.7	12.2	10.9	12.2			52.0
Launch Motor	14	0				3.1	2.1	2.2	2.6			10.0
Flight Motor	12	0				0.6	0.4	0.4	0.5			1.9
2B Sensor	18	0				11.9	10.0	6.8	6.7			35.4
Gyro	13	0				5.4	3.6	3.8	4.4			17.2
Launch Motor Case Kit	10	0				1.2	0.8	0.9	1.0			3.9
Actuators	13	0				3.2	2.1	2.2	2.6			10.1
Aft Case	11	0				1.9	1.3	1.3	1.6			6.1
Gen2 Module	16	0				4.4	5.9	3.9	3.9			18.1
Total Advance Procurement			0.0	0.0	0.0	48.4	38.4	32.4	35.5	0.0	0.0	154.7

Advance Procurement funding in FY11, FY12, FY13, and FY14 procures Long Lead Items for a FY11-15 multi-year contract for 6,215 TOW (BGM-71 Series) missiles.

Advance Procurement Requirements Analysis-Funding (P-10B)					Date: February 20	010
Appropriation / Budget Activity / Serial No: Missile Procurement, Army / 2 / Other missiles		P-1 Line Item Nomencla TOW Famil	ture / Weapon System: y of Missiles			
			(3	\$ in Millions)		
					2011	
	PLT (mos)	Quantity Per Assembly	Unit Cost	Qty	Contract Forecast Date	Total Cost Request
Items						
Warhead	19	1	11042.0	1513.0	11/02/2010	16.7
Launch Motor	14	1	1615.0	1944.0	11/02/2010	3.1
Flight Motor	12	1	304.0	1944.0	11/02/2010	0.6
2B Sensor	18	1	10987.0	1082.0	11/02/2010	11.9
Gyro	13	1	2760.0	1944.0	11/02/2010	5.4
Launch Motor Case Kit	10	1	627.0	1944.0	11/02/2010	1.2
Actuators	13	1	1634.0	1944.0	11/02/2010	3.2
Aft Case	11	1	969.0	1944.0	11/02/2010	1.9
Gen2 Module	16	1	12020.0	365.0	11/02/2010	4.4
Total Advance Procurement						48.4

Advance Procurement funding in FY11, FY12, FY13, and FY14 procures Long Lead Items for a FY11-15 multi-year contract for 6,215 TOW (BGM-71 Series) missiles.

Exhibit P-40, Budget Item 3	Justification	Sheet							Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Oth					P-1	Item Nomencla BCT Non L	ture ine of Sight Launch	System - Incremen	1 (C64501)		
Program Elements for Code B Items:		Code:		Other R	Related Program	Elements:					
	Prior Years	FY 2009	FY	2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty											
Gross Cost					350.6	758.7	112.1				1221.3
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1					350.6	758.7	112.1				1221.3
Initial Spares											
Total Proc Cost					350.6	758.7	112.1				1221.3
Flyaway U/C											
Weapon System Proc U/C											

The Non-Line of Sight Launch System (NLOS-LS) consists of the Precision Attack Missile (PAM) and a highly deployable, platform-independent Container Launch Unit (CLU) with self-contained technical fire control, electronics, communication and software for remote and unmanned operations. The PAM will be vertically launched directly from the CLU based on fire missions received via the IBCT network and will be capable of being updated in-flight via on-board radios by the network. The vertical launch capability permits a system that is highly deployable as well as the ability to engage a wide spectrum of targets in diverse environments and terrain. The PAM has an Automatic Target Acquisition (ATA) capability which can be readily upgraded with future threat/mission requirements. The BCT NLOS-LS Increment 1 (IBCT INC 1) will equip the IBCT with an Advanced Field Artillery Tactical Data System (AFATDS) command based unmanned precision attack missile system.

Justification:

FY2011 procures the equipment to effectively equip the second and third Increment 1 IBCTs for the fielding in FY2012/2013. It also provides for the NLOS-LS unique production support and fielding efforts. For FY11 only, the NLOS-LS contractor System Engineering / Program Management support costs are included in the BCT Training/Logistic/Management (G8001) OPA Budget line. The first Increment 1 IBCT was funded in FY2010 under WTCV procurement budget line (G86200) and the Advance Procurement to support the FY2011 procurement of the NLOS-LS was also funded in the aforementioned WTCV budget line.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 /	Other m		1 Line Item N CT Non Line		ystem - Increment	1 (C64501)	Weapon Syste	m Type:	Date:	February 2010
MSLS		ID	•	FY 09	1		FY 10			FY 11	
Cost Elemen	ts	CD	Total Co	st Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
BCT Non-Line of Sight Launch System (NLO											
Non Recurring Production									41152	!	
Recurring Production Costs											
NLOS-LS											
PAM									226209	485	466
CLU									26347	23	1146
Control Cell									4677	4	1169
Recurring Production Support Costs											
Production Support									62242	!	
Fielding Support									2092	2	
SEPM - Contractor									12145	5	
Funding Adj due to Budget Allocation											
Less: PY Advance Procurement*									29677	'	
Plus: CY Advanced Procurement*									29677	'	
Total:									350574	l l	

Exhibit P-5a, Budget Procurement H	story and Planning							ate: ebruary	2010	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army/ 2/ Other missiles	Weapon System Type:		Nomenclature: e of Sight Launch System - Inc	erement 1 (C645	01)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
PAM										
FY 2011	Boeing Co. St. Loius, MO	SSFP	TACOM, Warren, MI	Jun 10	Jul 11	485	466			
FY 2012	Boeing Co. St. Loius, MO	SSFP	TACOM, Warren, MI	Jun 11	Jul 12	1180	368			
CLU										
FY 2011	Boeing Co. St. Loius, MO	SSFP	TACOM, Warren, MI	Jun 10	Jul 11	23	1146			
FY 2012	Boeing Co. St. Loius, MO	SSFP	TACOM, Warren, MI	Jun 11	Jul 12	60	961			
Control Cell										
FY 2011	Boeing Co. St. Loius, MO	SSFP	TACOM, Warren, MI	Jun 10	Jan 12	4	1169			
FY 2012	Boeing Co. St. Loius, MO	SSFP	TACOM, Warren, MI	Jun 11	Jul 12	12	1571			

REMARKS: *Army did not have sufficient time to produce an Advanced Procurement line in the database. Request that the Congress consider the above Advanced Procurement request for this budget line.

		F	Y 10 /	11 BU	DGET	PRO	DUC	TIO	N SCH	IEDU	LE			P-1 ITEN BCT No	M NOME n Line of	NCLA' Sight L	ΓURE aunch S	ystem -	Increme	nt 1 (C6-	4501)		Dat	e:	Februa	ry 2010					
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C64501
BCT Non Line of Sight Launch System - Increment 1
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Item No. 8 Page 4 of 5 Page 45 of 122 Printed from the FY11 PresBud

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C64501
BCT Non Line of Sight Launch System - Increment 1
DRAFT

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Exhibit P-40, Budget Item J	Justification	Sheet					I	Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Othe				P-3	I Item Nomencla Guided ML	iture RS Rocket (GMLRS) (C64400)			
Program Elements for Code B Items:		Code:	Other	Related Program C65404, C65406	Elements: 5, PE 0603778A, Proj	jects 784/789				
	Prior Years	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	6438	2646	3228	2592	2802	2892	2880	2946	17136	43560
Gross Cost	861.2	309.2	353.3	291.0	314.8	326.8	337.8	347.1	2084.2	5225.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	861.2	309.2	353.3	291.0	314.8	326.8	337.8	347.1	2084.2	5225.3
Initial Spares										
Total Proc Cost	861.2	309.2	353.3	291.0	314.8	326.8	337.8	347.1	2084.2	5225.3
Flyaway U/C										
Weapon System Proc U/C	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1

Guided Multiple Launch Rocket Systems (GMLRS) munitions are the Army's primary organic Joint Expeditionary, all-weather, all-terrain, 24/7, tactical range precision guided rockets employed by modular Fires Brigades supporting Brigade Combat Teams, Joint Special Operations Force and Joint Force combatant commanders. GMLRS are the primary munitions for units fielded with the High Mobility Artillery Rocket System and Multiple Launch Rocket System (MLRS) M270A1 rocket and missile launcher platforms. GMLRS provides close, medium and long range pin point precision and area fires to destroy, suppress and shape threat forces and protect friendly forces against: cannon, mortar, rocket and missile artillery; light materiel and armor; personnel; command and control; and air defense surface targets. GMLRS is a major upgrade/replacement for the aging M26A1/A2 rocket inventory that integrates a guidance and control package and an improved rocket motor achieving greater range and precision accuracy requiring fewer rockets to defeat targets than current artillery rockets, thereby reducing the logistics burden. There are two variants of GMLRS; GMLRS with Dual Purpose Improved Conventional Munitions (DPICM) and GMLRS with a 200-pound class high explosive warhead (Unitary). The GMLRS DPICM is a five nation cooperative program among France, Germany, Italy, United Kingdom and the United States. The GMLRS Unitary is a modification to the GMLRS DPICM integrating a multi-mode fuze and high explosive warhead making it an all-weather, low collateral damage, precision rocket. This modification expands the MLRS target set into urban and complex environments, adds point targets, and supports Troops in Contact (TIC). The alternative warhead will replace the DPICM with similar lethal capability that reduces unexploded ordnance. To meet Central Command Operational Need Statements, 1458 limited capability GMLRS Unitary rockets were accelerated and fielded in Iraq between June 2005 and December 2007. In the more than 1500 rockets fired in Opera

Justification:

FY 2011 procures 2592 GMLRS Unitary rockets in the amount of \$291.041 million. The Army Procurement Objective is 43,560 Rockets.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 /	Other n			omenclature: ocket (GMLRS) (C	C64400)		Weapon System	m Type: D	ate:	February 2010	
MSLS		ID	•	FY 09			FY 10	•	1	FY 11		
Cost Elemen	ts	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	
Missile Hardware Recurring												
GMLRS Rockets (DPICM) (C65404)												
GMLRS Rockets (Unitary) (C65404)			26011	2646	98	320367	3228	99	259366	2592	100	
Engineering Services			936	3		8004			7127			
Ind Maint/Init Prod Fac			906	4								
Interim Contractor Support												
Fielding			78	3		656			551			
Subtotal Hardware			27933	0		329027			267044			
Procurement Support												
Project Management Admin			647	1		4738			4820			
Production Engineering Support			1643	7		13434			12980			
Government Test			660	5		5704			5791			
Subtotal Procurement Support			2951	3		23876			23591			
Total Missile Flyaway			30884	3		352903			290635			
Support Costs												
GMLRS Training Devices (C65406)			36	2		408			406			

362

309205

408

353311

406

291041

Msl Test Device and Trainer

Total:

Subtotal Support Costs

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Exhibit P-5 Weapon System Cost Analysis

Exhibit P-5a, Budget Procurement Hi	story and Planning							ate: ebruary	2010	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army/ 2/ Other missiles	Weapon System Type:		Nomenclature: S Rocket (GMLRS) (C64400)				•			
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
GMLRS Rockets (DPICM) (C65404)										
GMLRS Rockets (Unitary) (C65404)										
FY 2009	Lockheed Martin Dallas, Texas	SS/FFP	AMCOM, RSA, AL	Dec 08	Feb 10	2646	98	Yes		May-08
FY 2010	Lockheed Martin Dallas, Texas	SS/FFP	AMCOM, RSA, AL	Mar 10	May 11	3228	99	Yes		Sep-09
FY 2011	Lockheed Martin Dallas, Texas	SS/FFP	AMCOM,RSA,AL	Dec 10	Feb 12	2592	100	Yes		May-10

REMARKS: Lockheed Martin is currently the industry source that is both facilitized and qualified to produce the Guided Multiple Launch Rocket System (GMLRS) rocket.

^{*} Sole Source/Firm Fixed Price

^{**} Aviation and Missile Command, Redstone Arsenal, Alabama

		F	Y 09 /	10 BU	DGET	PRO	DUC	TION	N SCI	HEDU:	LE				M NOME MLRS Ro			(C64400))				Dat	te:	Februar	y 2010				
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1 FY 1 FY	10	A	2616	0	2616																		A							2616
1 FY	10	MC	366	0	366																		A							366
1 FY		A	2592	0	2592																									2592
1 FY		MC	114	0	114																									114
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Exhibit P-40, Budget Item J	Justification	Sheet					Γ	Date:	February 2010	
Appropriation / Budget Activity / Seria	1 No:			P	1 Item Nomencla	ature			reducity 2010	
Missile Procurement, Army / 2 / Other						DUCED RANGE PR	ACTICE ROCKETS	G (RRPR) (C65405)		
Program Elements for Code B Items:		Code:	Othe	r Related Progra C65400, C654						
	Prior Years	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	10140	4014	20	64 205	8 2370	2430	2412	2706	28248	56442
Gross Cost	62.6	25.2	1:	5.6 15	9 18.2	18.6	18.9	21.3	247.4	443.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	62.6	25.2	1:	5.6	9 18.2	18.6	18.9	21.3	247.4	443.7
Initial Spares										
Total Proc Cost	62.6	25.2	1:	5.6 15	9 18.2	18.6	18.9	21.3	247.4	443.7
Flyaway U/C										
Weapon System Proc U/C	0.0	0.0	(0.0	0.0	0.0	0.0	0.0	0.0	0.1

Description:

The Multiple Launch Rocket System (MLRS) Low Cost Reduced Range Practice Rocket (LCRRPR) is the only live training rocket or missile for the U.S. Army Field Artillery rocket and missile units/crews. In this capacity, the MLRS LCRRPR meets a critical validated requirement for Active and Reserve High Mobility Artillery Rocket System (HIMARS), M270A1 and M270 launcher units to achieve and maintain combat readiness in the Overseas Contingency Operation (OCO). The LCRRPR training rocket supports Army modularity. HIMARS and M270A1 Battalion are organic and attached to modular Fires Brigades supporting Brigade Combat Teams (BCTs), Joint Expeditionary Force (JEF) and Joint Special Operations Force (JSOF) combatant commands. The training rocket has an inert payload section with a blunt nose for inducing reduced range for use at multiple facilities both in the United States of America and other foreign countries. LCRRPR Rockets are manufactured in Camden, Arkansas.

Justification:

FY2011 funding procures 2058 LCRRPRs which are required to maintain the practice rocket inventory for Standards in Training Commission (STRC) requirements.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 2 /	Other n		S REDUCE	omenclature: ED RANGE PRAC	TICE ROCKETS	(RRPR)	Weapon Syste	m Type:	Date:	February 2010
MSLS		ID		FY 09			FY 10	1		FY 11	
Cost Elemen	ts	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE											
Reduced Range Practice Rocket (LCRRPR)			2194	5 4014	5	11366	2064	6	11498	2058	6
Warheads Govt Furnished Equip (GFE)			83	0		1568			1650	O	
Engineering Services			26	0		531			542	2	
First Destination Transportation			2	.7		28			23	8	
SUBTOTAL			2306	2		13493			13718	8	
PROCUREMENT SUPPORT											
Project Management Admin			63	1		644			650	5	
Production Engineering Support			113	3		1071			109	7	
Test and Evaluation			39	9		407			41:	5	
SUBTOTAL			216	3		2122			2168	8	
Total:			2522	5		15615			15886	6	

Exhibit P-5a, Budget Procurement Histo	ory and Planning							ate: ebruary :	2010	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army/ 2/ Other missiles	Weapon System Type:		Nomenclature: CED RANGE PRACTICE RO	OCKETS (RRPR) (C65405)		•			
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Reduced Range Practice Rocket (LCRRPR)										
FY 2009	Lockheed Martin Dallas,Texas	SS/FFP	AMCOM, RSA, AL	Dec 08	Nov 09	4014	5	Yes		May 08
FY 2010	Lockheed Martin Dallas,Texas	SS/FFP	AMCOM, RSA, AL	Mar 10	May 11	2064	6	Yes		Sep 09
FY 2011	Lockheed Martin Dallas,Texas	SS/FFP	AMCOM, RSA, AL	Dec 10	Dec 11	2058	6	Yes		

REMARKS: Lockheed Martin is currently the industry source that is both facilitized and qualified to produce the Low Cost Reduced Range Practice Rocket.

^{*} Sole source/Firm Fixed Price

^{**} Aviation and Missile Command, Redstone Arsenal, AL

		F	Y 09 /	10 BU	DGET	PRC	DUC	TIO	N SCE	IEDU	LE			P-1 ITE MLRS R				CTICE I	ROCKE	TS (RRI	PR) (C65	5405)	Date		Februar	ry 2010					
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Red	uced Ra	nge Pra	ctice Roc	ket (LCRI	RPR)			ı		•				'N									I								
1	FY 09	A	4014	0	4014			A											330	330	330	336	336	336	336	336	336	336	336	336	
1	FY 09	MC	732	0	732			A											60	60	60	60	60	60	60	60	60	60	66	66	
1	FY 10	A	2064	0	2064																		A							2064	
1	FY 10	MC	720	0	720																		A							720	-
_	FY 11	A	1249	0	1249																									1249	4
_	FY 11	MC	600	0																										600	4
-	FY 11	NG	809	0																										809	4
	FY 11	TOT	2058	0	2058																									2058	4
1	FY 10	FMS	30	0	30																		A							30	-
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Red	uced Ra	nge Pra	ctice Roc	ket (LCR)	RPR)									, ,	ij	i i				•			•							
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1	FY 09	MC	732	666	66	66																								0
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1	FY 10	MC	720	0	720								ć	60	60	60	60	60	60	60	60	60	60	60						0
1	FY 11	A	1249	0	1249																									1249
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F R	FY	R V	x1000	TO 1 OCT	AS OF 1 OCT	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	Later	
Red	uced Ra	nge Pra	ctice Roc	ket (LCRI	RPR)				•		ij			1									,		,						
1	FY 09	A	4014	4014																										0	
1	FY 09	MC	732	732																										0	
1	FY 10	A	2064	2064																										0	
	FY 10	MC	720	720	1																									0	4
	FY 11	A	1249	0																										1249	1
	FY 11	MC	600	270		54	54	54	42	42	42	42																		0	4
	FY 11	NG	809	0																										809	-
	FY 11	TOT	2058	870		174	174	174	174	174	162	156																		0	4
1	FY 10	FMS	30	30																										0	-
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Tota	ıl				3576	228	228	228	216	216	204	198																		2058	
						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		
																															_
M]	PRODU	CTION	RATES						A	DMIN L	EAD T	IME		MFR		TOTA	AL	REMA	RKS					
F											Reac	hed M	FR			Prio	or 1 Oct	Afte	r 1 Oct	Aft	er 1 Oct		After 1	Oct							
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1	Lockho	eed Mar	tin, Dalla	ıs,Texas				42	480	960	12	2	R	eorder			0		2		11		13								
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Exhibit P-40, Budget Item J	Justification	Sheet						Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 2 / Othe				P-1	I Item Nomencla High Mobili	iture ity Artillery Rocket S	System (HIMARS) (C02901)		
Program Elements for Code B Items:		Code:	Other I	Related Program C03000 HIMAR	Elements: S, C03001 HIMARS	Training Devices &	0603778A090 HIM	ARS RDTE		
	Prior Years	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty	228	57	46	44						375
Gross Cost	984.7	227.5	208.4	211.5	31.7	20.3	7.1	7.2		1698.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	984.7	227.5	208.4	211.5	31.7	20.3	7.1	7.2		1698.5
Initial Spares	40.9	12.9	8.9	9.7	0.9	1.2	1.2	1.3		77.2
Total Proc Cost	1025.7	240.4	217.3	221.2	32.7	21.5	8.3	8.5		1775.6
Flyaway U/C										
Weapon System Proc U/C	4.3	4.0	4.5	4.8						17.6

Description:

The M142 High Mobility Artillery Rocket System (HIMARS) fully supports more deployable, affordable and lethal, Brigade Combat Teams, Fires Brigade, Modular Forces, and Joint Expeditionary Forces. The HIMARS launcher is a C-130 transportable, wheeled, indirect fire, rocket/missile launcher capable of firing all rockets and missiles in the current and future Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM) and Army Tactical Missile System (ATACMS) Family of Munitions (AFOM). The HIMARS launcher has extensive commonality with the MLRS M270A1 tracked launcher and consists of a Fire Control System, a carrier (FMTV XM1140 automotive chassis) and a launcher-loader module (LLM) that performs all operations necessary to complete a fire mission. The MFOM and AFOM are a family of rockets and missiles capable of attacking a variety of tactical and operational targets, providing the requisite range and lethality to support maneuver commanders out to 300 kilometers. HIMARS when firing ATACMS and GMLRS is capable of the precise attack of targets in both open and complex/urban terrain, with low collateral damage. HIMARS satisfies the Army's digitization requirements by interfacing with the Advanced Field Artillery Tactical Data System (AFATDS) fire support command and control system. HIMARS is interoperable with existing MLRS units in terms of communications and reloading capabilities. HIMARS is an all-weather, day/night, indirect fire system used in support of light, early and forced entry expeditionary operations using a more deployable, lethal, survivable and tactically mobile long range artillery system. The HIMARS is deployable worldwide and will operate in a wide range of climatic conditions. It is certified by the Air Force for fixed-wing air transport in a fully combat loaded, combat ready configuration. HIMARS, as part of the Fires Brigade, will provide fires that shape, shield and isolate the battle space. Using both precision GMLRS and ATACMS Unitary munitions, HIMARS provides close support fires for

Justification:

FY11 procurement dollars in the amount of \$221.223 million supports 44 HIMARS launchers and software, trainers, initial spares, field support and associated support items of equipment. HIMARS meets the Army's modernization goal for the 21st century, and was selected by Army strategic planners as one of the Army's core systems of the Fires Brigade. The approved Army Acquisition Objective is 888 and the Army Procurement Objective is 375.

GROUND EQUIPMENT HARDWARE Launcher (SSN C02901)	nts	ID CD	Total Cost	FY 09			EX7.10					
GROUND EQUIPMENT HARDWARE Launcher (SSN C02901)	nts	CD	Total Cost				FY 10		•	FY 11		
Launcher (SSN C02901)			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	
Launcher (SSN C02901)			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000	
,									1			
G ' (G (F '1 1B ()			15481	4 57	2716	133354	46	2899	133713	44	3039	
Carrier (Government Furnished Property)			2120	1 57	372	21436	46	466	23982	44	545	
Engineering Services, IES			1107	3		11225			11318		1	
Fielding			994	5		10605			10121		1	
SUBTOTAL			19703	3		176620			179134		1	
PROCUREMENT SUPPORT									ı		1	
Project Management Admin			831	0		9674			9997		1	
Production Engineering			1108	5		12149			12184		1	
Government Testing			338	4		3094			3098		1	
SUBTOTAL			2277	9		24917			25279		1	
SUPPORT EQUIPMENT									ı		1	
Peculiar Support Equipment			230	4		2401			1204		1	
SUBTOTAL			230	4		2401			1204		1	
Training Devices (C03001)									ı		1	
Tactical Trainer			452	1		3680			5132		1	
Simulator			87	2		798			768			
Subtotal			539	3		4478			5900			
									•			

227509

208416

Total:

211517

Exhibit P-5a, Budget Procurement Histo	ory and Planning							ate: ebruary	2010	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army/ 2/ Other missiles	Weapon System Type:		Nomenclature: Artillery Rocket System (HIM	IARS) (C02901)		1			
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Launcher (SSN C02901)										
FY 2009	Lockheed Martin Dallas Texas	SS/FFP*	AMCOM, RSA, AL**	Dec 08	Jun 10	57	2716	Yes		Mar 08
FY 2010	Lockheed Martin Dallas Texas	SS/FFP*	AMCOM, RSA, AL**	Dec 09	Apr 11	46	2899	Yes		Mar 09
FY 2011	Lockheed Martin Dallas Texas	SS/FFP*	AMCOM, RSA, AL**	Dec 10	Apr 12	44	3039	Yes		Mar 10

REMARKS: Sole Source - Lockheed Martin and Fire Control System (LMMFC) is currently the only industry source that is both facilitized and qualified to produce the HIMARS launcher.

Note: Unit cost shown above reflects launcher costs only and does not reflect the cost of carriers which are provided to LMMFC as Government Furnished Equipment (GFE).

^{*} SS/FFP - Sole Source/Firm Fixed Price

^{**} AMCOM, RSA, Alabama (AL) - Aviation and Missile Command, Redstone Arsenal, AL

		F	Y 09 /	10 BU	DGET	PRO	DUC	TION	N SCE	IEDU:	LE			P-1 ITEN High Mo				ystem (H	IIMARS) (C0290	01)		Dat	te:	Februa	ry 2010				
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Lau	ncher (S	SN C02	901)																								•			
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1	FY 09 FY 10	A	57	0	57			A																		6	7	7	7	30
1	FY 10	A	46	0																A										46
	FY 11	A	44		ļ																									44
	FY 07	A	44	0	44	4	4	4	4	4																				24
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	FY 07	MC Emirat	16	0	16	1	1	1	1	1																				11
	ed Arat FY 08	FMS	20	0	20															3	7	4			6	1	1	1		0
Sing	apore	1.1413	20	0	20															3	,			1	0					Ů,
1	FY 08	FMS	18	0	18																	3	7	7	1					0
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						O C T	N O V	D E C	J A N	E B	A R	A P R	M A Y	U N	J U L	A U G	S E P	C T	N O V	D E C	A N	F E B	M A R	A P R	M A Y	J U N	U L	A U G	E P	
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F											Reac	hed M	IFR			Prio	or 1 Oct	After	r 1 Oct	Aft	er 1 Oct		After 1	Oct						
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М		S E	PROC QTY	ACCEP PRIOR	BAL DUE									Calenda	ar Year 1	11								Calen	ıdar Yea	nr 12				
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Launcl	er (S	SN C02	901)					•	•				•		•												•	•	•	
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1 FY 1 FY	09	A	57	27	30	7	7	6	6	4																				0
1 FY	10	A	46	0								4		4 4	4	4	4	4	4	4	4	3	3							0
1 FY	11	A	44	1				A																4	4	4	4	4	4	20
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Singap		FMS	20	20	1																			1						0
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Total					162	7	7	6	6	5	6	4	4	4	4	4	4	4	4	4	4	3	3	4	4	4	4	4	4	55
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(COST	T ELE	MENTS	5						Fiscal	Year 13	3	•									Fiscal Y	Year 14	1					
М	S E		ACCEP PRIOR	BAL DUE									Calenda	ar Year 1	13								Cale	ıdar Yea	ar 14				
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Launcher	(SSN C	C02901)	1	1	1	I	1	I			l	·	<u> </u>	I.				I		l	l	1	1	ı			ı		II
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1 FY 09	A	5	7 57	,																									0
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1 FY 07	MC	1	6 5	11																									11
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M]	PRODU	CTION	RATES						Α	ADMIN I	LEAD T	TME		MFR		TOT	AL	REMA	RKS				
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Exhibit P-40, Budget Item J	Justification	Sheet								Date:		February 201	0	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 3 / Moo]	P-1 Item	n Nomenclat	ture IODS (C50700)						
Program Elements for Code B Items:		Code:		Other R	elated Progra		nents: n Initial Spares,	CA0267						
	Prior Years	FY 2009	FY 2	2010	FY 2011	F	FY 2012	FY 2013	FY 2014	1	FY 2015	To Comple	e To	tal Prog
Proc Qty														
Gross Cost	1807.0	515.4		44.6	5	7.2	24.1	24.0	Ģ	98.7	96.5	93′	7.3	3604.9
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc P1	1807.0	515.4		44.6	5	7.2	24.1	24.0	Ģ	98.7	96.5	93′	7.3	3604.9
Initial Spares	157.0	10.8		10.5	-	7.0	6.7	6.7		6.8	5.8	90).4	301.8
Total Proc Cost	1964.1	526.2		55.2	64	4.2	30.8	30.7	10)5.4	102.3	102	7.7	3906.7
Flyaway U/C														
Weapon System Proc U/C														
P-40 Breakdown														
Area		FY 200)9	FY	2010	FY	2011	FY 2012	F	7 2013	FY	7 2014	FY	2015
Active	Qty		0		0		0		0		0	0		0
	Gross Cost	51	5375.0		44637.0		57170.0	2408	37.0	2401	15.0	98684.0		96539.0
National Guard	Qty		0		0		0		0		0	0		0
	Gross Cost		0.0		0.0		0.0		0.0		0.0	0.0		0.0
Reserve	Qty		0		0		0		0		0	0		0
	Gross Cost		0.0		0.0		0.0		0.0		0.0	0.0		0.0
Total	Qty		0		0		0		0		0	0		0
	Gross Cost	5	515375		44637		57170	24	087	24	015	98684		96539

Description:

The Patriot weapon system growth program implements modifications to the weapon system and maintains Integrated Logistics Support. Required modifications are identified through various means, including the following: Material changes identified in the Patriot Product Improvement Program; corrections identified in the field; obsolescence issues; emerging technologies; software improvements and communication upgrades.

Justification:

FY2011 Base funding in the amount of \$57.170 million supports the modifications for Reliability, Availability, and Maintainability Modifications (RAM Mods), Tactical Command System/Battery Command Post (TCS/BCP), and Recapitalization.

Exhibit P-40M, Bud	get Item Justifica	tion Sheet						Date:	February 2010		
Appropriation / Budget Activity / Ser Missile Procurement,	rial No: , Army / 3 / Modification of	f missiles			P-1 Item Non PAT	nenclature RIOT MODS (C50	0700)	·			
Appropriation / Budget Activity / Ser	rial No:				P-1 Item Nomeno	clature					
Program Elements for Code B Items:							Code:		elated Program Elen OT Modification Init		7
Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TC	Total
RLCEU - Pure Fleet/Grow The	Army	1	U	L	'				•		
1-92-03-1233		216.4	27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	243.7
RAM MODS											
1-98-03-1249		705.5	86.8	24.9	37.4	5.6	5.5	11.6	11.8	724.4	1613.5
Recapitalization											
1-01-01-1252		209.1	9.1	13.6	13.6	13.0	13.0	13.0	13.0	113.9	411.3
Radar Phase III/CDI Phase III -	Pure Fleet/GTA										
1-89-03-1231		435.8	85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	520.8
TCS/BCP - Pure Fleet/Grow the	Army										
1-97-03-1246		70.3	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.3
TCS/BCP											
1-01-01-1251		55.4	6.1	6.1	6.2	5.5	5.5	5.5	5.5	99.0	194.8
Command Launch System - Pure	e Fleet/Grow the Army										
0-00-00-0000		63.8	127.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	190.8
Patriot Spares - Pure Fleet/Grow	the Army										
0-00-00-0000		50.7	159.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	209.8
Radar Digital Processor (RDP)											
0-00-00-0000		0.0	0.0	0.0	0.0	0.0	0.0	68.6	66.2	0.0	134.8
Totals		1807.0	515.4	44.6	57.2	24.1	24.0	98.7	96.5	937.3	3604.8

Date:

February 2010

MODIFICATION TITLE: RLCEU - Pure Fleet/Grow The Army [MOD 1] 1-92-03-1233

MODELS OF SYSTEM AFFECTED: Information Coordination Central (ICC), Engagement Control Station (ECS), Commo Relay Group (CRG)

DESCRIPTION / JUSTIFICATION:

The Remote Launch/Communication Enhancement Upgrade (RLCEU) effort focuses on improving communications at the "below" battalion level through the introduction of new switching equipment and a new communications processor at the battery level in conjunction with a conversion to Band IV Ultra High Frequency (UHF) throughout the battalion. Additionally, the project will develop and field a remote launch capability permitting emplacement of a remote launcher farm in excess of 30 Km from the parent Engagement Control Station (ECS). This project is required to meet PAC-3 requirements for increased battlespace, lethality and rate of fire. Additionally, requirements for interoperability and communications are satisfied by this effort.

	Prior	FY02	FY03	FY04	FY07	FY	80	FY09
CRG	22	4	5	6	4	12	4	
ECS	39	6	8	8	4	12	4	
ICC	12	1		1	1	3	1	

RLCEU Financial Plan reflects total quantity (ECS/ICC/CRG).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Planned Accomplished

Preliminary Design Review 2QFY96 3QFY96
Critical Design Review (CDR) 4QFY96 4QFY96
Configuration Development Test & Evaluation (CDTE) 4QFY99 1QFY00
Force Development Test Experimentation (FDTE) 1QFY00 1QFY00
Limited User Testing (LUT) 2QFY00 3QFY00

Installation Schedule

_																					
	Pr Yr		FY 2	2009			FY 2	2010			FY:	2011			FY 2	2012			FY 2	2013	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	119	6	7	7	7	7	4														
	112			7	6	7	7	7	7	4											

	FY:	2014			FY 2	2015			FY 2	2016			FY 2	2017		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
																	157
																	157

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

3 months FY 2011 - PRODUCTION LEADTIME: 24 months

24 monui

Contract Dates: Delivery Dates: FY 2010 -FY 2010 -

FY 2011 -

FY 2012 -FY 2012 -

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Exhibit P-3A Individual Modification

Date:

February 2010

MODIFICATION TITLE (cont): RLCEU - Pure Fleet/Grow The Army [MOD 1] 1-92-03-1233

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	09	20	10	20	11	20	12	20	13	20	14	20	15	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	148	206.2	9	27.2															157	233.4
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2007 & Prior Equip Kits	121	10.0																	121	10.0
FY 2008 Kits	27	0.2																	27	0.2
FY 2009 Equip Kits			9	0.1															9	0.1
FY 2010 Equip Kits																				
FY 2011 Equip Kits																				
FY 2012 Equip Kits																				
FY 2013 Equip Kits																				
FY 2014 Equip Kits																				
TC Equip- Kits																				
Total Installment	148	10.2	9	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	157	10.3
Total Procurement Cost		216.4		27.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0		243.7

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Date:

February 2010

MODIFICATION TITLE: RAM MODS [MOD 2] 1-98-03-1249

MODELS OF SYSTEM AFFECTED: All GSE

DESCRIPTION / JUSTIFICATION:

These modifications provide resolution to field failures which are identified through component analysis, field data collection, obsolescence issues and emerging technologies which are prioritized based on readiness and Operations and Support (O&S) impacts. This effort includes the engineering, acquisition, qualification testing, installation, technical support and training associated with the modification and is essential to stabilize the system at the highest readiness posture available and reduction of O&S.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Major milestones not applicable.

Installation Schedule

Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
4194	173	173	283	283	283	284	66	66	65	65	77	77	76	75						
4020	174	173	173	283	283	283	284	66	66	65	65	77	77	76	75					

	FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
		22	22	22	20	23	23	23	11							7707	14113
			22	22	22	20	23	23	23	11						7707	14113

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

6 months

PRODUCTION LEADTIME: 6 months

Contract Dates:

FY 2010 - Dec 09

FY 2011 - Dec 10

FY 2012 - Dec 11

Delivery Dates:

FY 2010 - Jun 10

FY 2011 - Jun 11

FY 2012 - Jun 12

Date:

February 2010

MODIFICATION TITLE (cont): RAM MODS [MOD 2] 1-98-03-1249

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	09	20	10	20	11	20	12	20	013	20	14	20	15	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	4530	674.0	1133	68.0	262	17.3	305	29.3					86	6.0	90	6.3	7707	535.9	14113	1336.8
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment		2.5																		2.5
Support Equipment																				
Other		9.4		11.2		4.9		5.0		4.8		4.7		4.1		3.9		99.1		147.1
Contractor Logistics Support		1.6		0.8		0.8		0.8		0.8		0.8		0.8		0.8		15.2		22.4
Installation of Hardware																				
FY 2007 & Prior Equip Kits	3836	13.8																	3836	13.8
FY 2008 Kits	694	4.2																	694	4.2
FY 2009 Equip Kits			1133	6.8															1133	6.8
FY 2010 Equip Kits					262	1.9													262	1.9
FY 2011 Equip Kits							305	2.3											305	2.3
FY 2012 Equip Kits																				
FY 2013 Equip Kits																				
FY 2014 Equip Kits													86	0.7					86	0.7
TC Equip- Kits															90	0.8	7707	74.2	7797	75.0
Total Installment	4530	18.0	1133	6.8	262	1.9	305	2.3	0	0.0	0	0.0	86	0.7	90	0.8	7707	74.2	14113	104.7
Total Procurement Cost		705.5		86.8		24.9		37.4		5.6		5.5		11.6		11.8		724.4		1613.5
			ı	ı .		l .		1	U	ı	ı		1		ı				ı I	

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Date:

February 2010

MODIFICATION TITLE: Recapitalization [MOD 3] 1-01-01-1252

MODELS OF SYSTEM AFFECTED: ECS, ICC, LS, CRG

DESCRIPTION / JUSTIFICATION:

These modifications include communication upgrades, Family of Medium Tactical Vehicles (FMTV), training upgrades, and Depot Maintenance Plant Equipment (DMPE) and are synchronized with the recapitalization program.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Major milestones not applicable.

Installation Schedule

Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
5		1				1				1				1				1		
5				1				1				1				1				1

	FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
	1				1				1							3	16
			1				1				1					3	16

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

6 months

PRODUCTION LEADTIME: 12 months

Contract Dates:

FY 2010 - Mar 10

FY 2011 - Mar 11

FY 2012 - Mar 12

Delivery Dates:

FY 2010 - Mar 11

FY 2011 - Mar 12

FY 2012 - Mar 13

Date:

February 2010

MODIFICATION TITLE (cont): Recapitalization [MOD 3] 1-01-01-1252

FINANCIAL PLAN: (\$ in Millions)

]
	Prior	Yrs.	20	09	20	10	20	11	20	12	20	13	20	14	20	15	TO	C	To	al
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	6	189.9	1	6.4	1	10.4	1	10.4	1	10.0	1	10.0	1	10.0	1	10.0	3	98.7	16	355.8
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other				1.9		2.0		2.0		2.0		2.0		2.0		2.0		7.0		20.9
Contractor Logistics Support																				
Installation of Hardware																				
FY 2007 & Prior Equip Kits	6	19.2																	6	19.2
FY 2008 Kits			1	0.8															1	0.8
FY 2009 Equip Kits					1	1.2													1	1.2
FY 2010 Equip Kits							1	1.2											1	1.2
FY 2011 Equip Kits									1	1.0									1	1.0
FY 2012 Equip Kits											1	1.0							1	1.0
FY 2013 Equip Kits													1	1.0					1	1.0
FY 2014 Equip Kits															1	1.0			1	1.0
TC Equip- Kits																	3	8.2	3	8.2
Total Installment	6	19.2	1	0.8	1	1.2	1	1.2	1	1.0	1	1.0	1	1.0	1	1.0	3	8.2	16	34.6
Total Procurement Cost		209.1		9.1		13.6		13.6		13.0		13.0		13.0		13.0		113.9		411.3

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Date:

February 2010

MODIFICATION TITLE: Radar Phase III/CDI Phase III - Pure Fleet/GTA [MOD 4] 1-89-03-1231

MODELS OF SYSTEM AFFECTED: Radar

DESCRIPTION / JUSTIFICATION:

The objective of this modification is to increase the average power providing greater multifunction capability and increase the reliability and maintainability of the radar. Transmitter and receiver modifications will be made to the radar.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Accomplished Planned

Preliminary Design Review (PDR) **2QFY92** 2QFY92 3QFY93 Critical Design Review (CDR) 3QFY93 Contractor Test and Evaluation (CTE) 40FY99 10FY00 Development Test and Evaluation (DTE) 1QFY00 1QFY00 Initial Operational Test and Evaluation (IOTE) 2QFY02 20FY02

Installation Schedule

Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
10			1	3	3	3	3	3	3	1										
10						1	3	3	3	3	3	3	1							

	FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017		То	Totals
1	2	3	4	1	2	3	4	4 1 2 3 4 1 2 3						4	Complete		
																	30
																	30

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

5 months

PRODUCTION LEADTIME: 24 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Date:

February 2010

MODIFICATION TITLE (cont): Radar Phase III/CDI Phase III - Pure Fleet/GTA [MOD 4] 1-89-03-1231

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	09	20	10	20	11	20	12	20	13	20	14	20	15	TO		То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	26	385.6	4	77.0															30	462.6
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2007 & Prior Equip Kits	14	26.2																	14	26.2
FY 2008 Kits	12	24.0																	12	24.0
FY 2009 Equip Kits			4	8.0															4	8.0
FY 2010 Equip Kits																				
FY 2011 Equip Kits																				
FY 2012 Equip Kits																				
FY 2013 Equip Kits																				
FY 2014 Equip Kits																				
TC Equip- Kits																				
Total Installment	26	50.2	4	8.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	30	58.2
Total Procurement Cost	_	435.8		85.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		520.8

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Date:

February 2010

MODIFICATION TITLE: TCS/BCP - Pure Fleet/Grow the Army [MOD 5] 1-97-03-1246

MODELS OF SYSTEM AFFECTED: TCS/BCP

DESCRIPTION / JUSTIFICATION:

This modification integrates the hardware and software required at Battery (BCP) and Battalion (TCS) to provide Force Operations functionality. This includes automated defense design, weapon system initialization, situational awareness and Battle Management Command, Control, Communications, Computers and Intelligence voice and data interoperability. This mod also provides powered and conditioned space for Battalion and Battery commanders.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Major milestones are not applicable.

Installation Schedule

Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
Totals					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
88					2	3			2	3										
88					2	3			2	3										

	FY	2014			FY :	2015			FY 2	2016			FY 2	2017		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
																	98
																	98

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

6 months FY 2011 - PRODUCTION LEADTIME: 6 months
FY 2012 -

Contract Dates: Delivery Dates: FY 2010 -FY 2010 -

FY 2011 -

FY 2012 -

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Date:

February 2010

MODIFICATION TITLE (cont): TCS/BCP - Pure Fleet/Grow the Army [MOD 5] 1-97-03-1246

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	09	20	10	20	11	20	12	20	13	20	14	20	15	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	93	60.3	5	14.1															98	74.4
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other		4.0																		4.0
Contractor Logistics Support																				
Installation of Hardware																				
FY 2007 & Prior Equip Kits	88	5.1																	88	5.1
FY 2008 Kits	5	0.9																	5	0.9
FY 2009 Equip Kits			5	0.9															5	0.9
FY 2010 Equip Kits																				
FY 2011 Equip Kits																				
FY 2012 Equip Kits																				
FY 2013 Equip Kits																				
FY 2014 Equip Kits																				
TC Equip- Kits																				
Total Installment	93	6.0	5	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	98	6.9
Total Procurement Cost		70.3		15.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		85.3

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Date:

February 2010

MODIFICATION TITLE: TCS/BCP [MOD 6] 1-01-01-1251

MODELS OF SYSTEM AFFECTED: TCS/BCP

DESCRIPTION / JUSTIFICATION:

The TCS/BCP effort continues the development of required capability while maintaining consistency and compatibility with the existing tactical software. This includes concept development and systems engineering; software requirements and requirements updates; and Independent Validation and Verification. Hardware obsolescence alleviation and technology refresh are required components to this effort. Technology refresh efforts will be required for the service life of the TCS and BCP.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Major milestones are not applicable.

Installation Schedule

10																					
	Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
	Totals					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	27	27																			
	27	21																			

	FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
																	27
																	27

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

3 months

FY 2011 -

PRODUCTION LEADTIME: 12 months

FY 2012 - Mar 12

Contract Dates: Delivery Dates: FY 2010 - Mar 10

FY 2010 -

FY 2011 - Mar 11

FY 2012 -

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Date:

February 2010

MODIFICATION TITLE (cont): TCS/BCP [MOD 6] 1-01-01-1251

FINANCIAL PLAN: (\$ in Millions)

]
	Prior	Yrs.	20	09	20	10	20	11	20	12	20	13	20	14	20	015	T	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	27	29.0																	27	29.0
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other (Software)		5.0		2.9		3.0		3.1		2.8		2.8		2.8		2.	8	39.6		64.8
Contractor Logistics Support		15.3		3.2		3.1		3.1		2.7		2.7		2.7		2.	7	59.4		94.9
Installation of Hardware																				
FY 2007 & Prior Equip Kits	27	6.1																	27	6.1
FY 2008 Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits																				
FY 2011 Equip Kits																				
FY 2012 Equip Kits																				
FY 2013 Equip Kits																				
FY 2014 Equip Kits																				
TC Equip- Kits																				
Total Installment	27	6.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.	0 0	0.0	27	6.1
Total Procurement Cost		55.4	·	6.1		6.1		6.2		5.5	·	5.5	·	5.5		5.	5	99.0		194.8

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Exhibit P-3A Individual Modification

Date:

February 2010

MODIFICATION TITLE: Command Launch System - Pure Fleet/Grow the Army [MOD 7] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: Patriot Launchers

DESCRIPTION / JUSTIFICATION:

The Command Launch System includes the Enhanced Launcher Electronics System (ELES) and the Fire Solution Computer (FSC). The ELES update the existing PAC-2 missile launcher station, allowing it to fire the PAC-3 missile and increase overall load-out from 4 (PAC-2 launcher) to 16 interceptors per launch station. The FSC upgrades the Engagement Control System to interface with the PAC-3 Launcher Station. ELES are also procured in Patriot PAC-3 (C49200) and MSE (C53101).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

	Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
	Totals	1	1 2 3 4				2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ĺ				4	5	5	6	9	9	9	6										
ĺ			4 5			5	5	6	9	9	9	6									

Totals	То		2017	FY :			2016	FY :			2015	FY :			2014	FY 2	
	Complete	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
53																	
53																	

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months FY 2011 - PRODUCTION LEADTIME: 24 months
FY 2012 -

Contract Dates: Delivery Dates: FY 2010 -FY 2010 -

FY 2011 -

FY 2012 -

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Date:

February 2010

MODIFICATION TITLE (cont): Command Launch System - Pure Fleet/Grow the Army [MOD 7] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	ł		L																	
	Prior	Yrs.	20	09	20	10	20	11	20	12	20	13	20	14	20	15	TO	C	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement	1																			
Kit Quantity	17	62.1	36	112.9															53	175.0
Installation Kits																				
Installation Kits, Nonrecurring	1																			
Equipment	1																			
Equipment, Nonrecurring	1																			
Engineering Change Orders	1																			
Data	1																			
Training Equipment	1																			
Support Equipment	1																			
Other	1			10.5																10.5
Contractor Logistics Support	1																			
Installation of Hardware	1																			
FY 2007 & Prior Equip Kits	17	1.7																	17	1.7
FY 2008 Kits	1		36	3.6															36	3.6
FY 2009 Equip Kits	1																			
FY 2010 Equip Kits	1																			
FY 2011 Equip Kits	1																			
FY 2012 Equip Kits																				
FY 2013 Equip Kits																				
FY 2014 Equip Kits																				
TC Equip- Kits			1																	
Total Installment	17	1.7	36	3.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	53	5.3
Total Procurement Cost		63.8		127.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		190.8

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						IND	IVIDUA	L MOD	IFICAT	TION								I	Date:	February	2010			
MODIFICATION 7	TITLE: Pa	triot Spar	es - Pure	Fleet/G	row th	e Army	[MOD 8] 0-00-00	0-0000															
MODELS OF SYS	ΓEM AFF	ECTED:	Configu	ration 2	and Co	onfigurat	ion 3 Pa	triot Gro	and Sup	ort Equ	ipment													
DESCRIPTION / JU Buys spares for			Grow t	he Arn	ny ba	ıttalion	s.																	
DEVELOPMENT S Major milestone				OPMEN	NT MII	LESTON	NE(S):																	
Installation Schedul		D 11				2000									.011				2012		I		2010	
		Pr Yr Totals		1	FY 2	3	4	1	2	2010	4	1		FY 2	3	4	1	2	2012	4	1	2 FY	2013	4
		Totals		1		3	1	1		1	1	1			3	4	1	2	3	4	1		3	+
Tops							1	1		1	1													
		FY	2014				FY 201	5			FY 20	16				FY 201	17				То			Totals
-	1	2	3	4	1	1	2	3	4	1	2	3	4	1		2	3	4		Co	mplete			
equi.																								4
METHOD OF IMP	LEMENT	ATION:	1	1	ı	ΑĽ	MINIS	RATIVI	E LEAD	TIME:	0	months		1	PR	ODUC	TION LE	EADTIME:	0 mo	nths				
Contract Dates:				2010 -								Y 2011							Y 2012 -					
Delivery Dates:			FY	2010 -							F	Y 2011	-					I	FY 2012 -	-				
I																								

Date:

February 2010

MODIFICATION TITLE (cont): Patriot Spares - Pure Fleet/Grow the Army [MOD 8] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	.		20	.00	20	10	20		20		20	10			20		-	~		
	Prior		20			10	20			12	20		20		20		TO			tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment		50.7		159.1																209.8
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Contractor Logistics Support																				
Installation of Hardware																				
FY 2007 & Prior Equip Kits																				
FY 2008 Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits																				
FY 2011 Equip Kits																				
FY 2012 Equip Kits																				
FY 2013 Equip Kits																				
FY 2014 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Procurement Cost		50.7		159.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		209.8

C50700 PATRIOT MODS Item No. 12 Page 18 of 20Exhibit P-3APage 88 of 122Individual Modification

TN	JD	T٦	/ID	TI	Δ	T	. M	n	D	IFI	CI	TI	O	N
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Date:

February 2010

MODIFICATION TITLE: Radar Digital Processor (RDP) [MOD 9] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

The Radar Digital Processor (RDP) enables full capability of the AN/TPX-57 IFF to include, Mode 5 Level 1, 2, and READI Combat ID implementation. Supports Follow-on EDP Tasks 6 & 7 to counter emerging threats and supports growth to netted sensor.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Major milestones not applicable.

Installation Schedule

Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

-																		
		FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
						8	8	9	9	8	8	8	9					67
							8	8	9	9	8	8	8	9				67

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 14 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Date:

February 2010

MODIFICATION TITLE (cont): Radar Digital Processor (RDP) [MOD 9] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	009	20	10	20	11	20	12	20	13	20	14	20	15	T	C	Tot	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement													34	60.6	33	59.0			67	119.6
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring														3.5		3.1				6.6
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment														0.3		0.3				0.6
Support Equipment																				
Other														2.8		2.4				5.2
Contractor Logistics Support														1.4		1.4				2.8
Installation of Hardware																				
FY 2008 & Prior Equip Kits																				
FY 2009 Kits																				
FY 2010 Equip Kits																				
FY 2011 Equip Kits																				
FY 2012 Equip Kits																				
FY 2013 Equip Kits																				
FY 2014 Equip Kits																				
FY 2015 Equip Kits															16		51		67	
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	16	0.0	51	0.0	67	0.0
Total Procurement Cost		0.0		0.0		0.0		0.0		0.0		0.0		68.6		66.2		0.0		134.8

C50700 PATRIOT MODS Item No. 12 Page 20 of 20 Page 90 of 122 Exhibit P-3A Individual Modification

Exhibit P-40, Budget Item J	Justification	Sheet							Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 3 / Mod					P	1 Item Nomencl ITAS/TOW	ature / MODS (C61700))			
Program Elements for Code B Items:		Code:	(Other Re	elated Prograi	n Elements:					
	Prior Years	FY 2009	FY 20	010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty											
Gross Cost	897.3	136.7		7.0	53.	9 13.6	5				1108.5
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	897.3	136.7		7.0	53.	9 13.6	5				1108.5
Initial Spares											
Total Proc Cost	897.3	136.7		7.0	53.	9 13.6	5				1108.5
Flyaway U/C											
Weapon System Proc U/C											

Description:

The Improved Target Acquisition System (ITAS) is a combat proven system that provides long-range, lethal anti-armor and precision assault fires capability for Active Component and Army National Guard Infantry Brigade Combat Teams (IBCT) and Stryker Brigade Combat Teams (SBCT) across the spectrum of contemporary operational environments. ITAS is a replacement for the Light Infantry's TOW 2 weapon system, and it provides the capability to defeat armored vehicles, bunkers, and buildings at extended ranges in all battlefield conditions. Far Target Locator (cut into production in FY 2006) adds a GPS based position and attitude determination subsystem to ITAS, enabling the system to generate a 10 digit grid coordinate of a target location. ITAS is integrated into the Stryker Anti-Tank Guided Missile (ATGM) vehicle of the SBCT anti-tank company. ITAS provides a surrogate precision assault capability for the SBCT infantry battalions until the Mobile Gun System (MGS) becomes available. ITAS's superior surveillance capability also enables the soldier to shape the battlefield by detecting targets at long range and either engaging with TOW missiles or other weapon systems to destroy those targets. ITAS is replacing all of the United States Marine Corps (USMC) ground TOW systems, and it has been sold to FMS customers. Canada and Portugal have purchased ITAS for their forces. ITAS continues to be the weapon of choice in precision combat engagements in Operation Enduring Freedom (OEF) and Operation Iraqi Freedom (OIF).

Justification:

FY 2011 Base procurement dollars in the amount of \$13.281 million procures fielding, new equipment training, government and contractor project management, system engineering, and data.

FY 2011 OCO procurement dollars in the amount of \$40.600 million replaces known and projected losses of ITAS systems in support of Overseas Contingency Operations.

Exhibit P-40M,	Budget Item Justific	cation Sheet						Date:	February 2010		
Appropriation / Budget Activ Missile Procu	vity / Serial No: rement, Army / 3 / Modification	of missiles			P-1 Item Non	nenclature S/TOW MODS (Co	51700)	'			
Appropriation / Budget Activ	vity / Serial No:				P-1 Item Nomeno	clature					
Program Elements for Code	B Items:						Code:	Other Re	elated Program Ele	ments:	
Description		Fiscal Years					•	'			
OSIP No.	Classification	Prior Yrs.	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TC	Total
ITAS (IMPROVED TAR	RGET ACQUISITION SYSTEM	[) [MOD 1]	J.	U	<u>.</u>		U	<u>.</u>	<u></u>	<u>.</u>	
MC-1-89-03-3028	OPERATIONAL	897.3	136.7	7.0	53.9	13.6	0.0	0.0	0.0	0.0	1108.5
Totals		897.3	136.7	7.0	53.9	13.6	0.0	0.0	0.0	0.0	1108.5

Date:

February 2010

MODIFICATION TITLE: ITAS (IMPROVED TARGET ACQUISITION SYSTEM) [MOD 1] [MOD 2] MC-1-89-03-3028

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

The Improved Target Acquisition System (ITAS) is a combat proven system that provides long-range, lethal anti-armor and precision assault fires capability for Active Component and Army National Guard Infantry Brigade Combat Teams (IBCT) and Stryker Brigade Combat Teams (SBCT) across the spectrum of contemporary operational environments. ITAS is a replacement for the Light Infantry's TOW 2 weapon system, and it provides the capability to defeat armored vehicles, bunkers, and buildings at extended ranges in all battlefield conditions. Far Target Locator (cut into production in FY 2006) adds a GPS based position and attitude determination subsystem to ITAS, enabling the system to generate a 10 digit grid coordinate of a target location. ITAS is integrated into the Stryker Anti-Tank Guided Missile (ATGM) vehicle of the SBCT anti-tank company. ITAS provides a surrogate precision assault capability for the SBCT infantry battalions until the Mobile Gun System (MGS) becomes available. ITAS's superior surveillance capability also enables the soldier to shape the battlefield by detecting targets at long range and either engaging with TOW missiles or other weapon systems to destroy those targets. ITAS is replacing all of the United States Marine Corps (USMC) ground TOW systems, and it has been sold to FMS customers. Canada and Portugal have purchased ITAS for their forces. ITAS continues to be the weapon of choice in precision combat engagements in Operation Enduring Freedom (OEF) and Operation Iraqi Freedom (OIF).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1239	138	93	50	32							6	15	15	15	5					
863	42	41	39	54	52	36	44	114	137	72	39	19							11	15

Totals	То		2017	FY			2016	FY			2015	FY			2014	FY	
	Complete	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
1608																	
1608																15	15

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months FY 2011 - NA PRODUCTION LEADTIME: 0 months

Contract Dates: Delivery Dates: FY 2010 - NA FY 2010 - NA

FY 2011 - NA

FY 2012 - NA FY 2012 - NA

C61700

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Exhibit P-3A Individual Modification

ITAS/TOW MODS

Date:

February 2010

MODIFICATION TITLE (cont): ITAS (IMPROVED TARGET ACQUISITION SYSTEM) [MOD 1] [MOD 2] MC-1-89-03-3028

FINANCIAL PLAN: (\$ in Millions)

														-						
	Prior	Yrs.	20	09	20	10	20	11	20	12	20	13	20	14	20	15	TC	7	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	1494		58				56												1608	
Equipment		733.8		106.7				40.6												881.1
Fielding		29.9		1.0		2.0		8.0		8.1										49.0
Project Management		40.7		15.1		4.9		5.2		5.4										71.3
Data		1.5		0.1		0.1		0.1		0.1										1.9
Training Equipment		46.9		6.6																53.5
Production Line Restart		3.7																		3.7
Initial Spares		40.8		7.2																48.0
Installation of Hardware FY 2007 & Prior Equip Kits FY 2008 Kits FY 2009 Equip Kits FY 2010 Equip Kits FY 2011 Equip Kits FY 2012 Equip Kits	863		176		65 181		209 58				56								1104 390 58	
FY 2013 Equip Kits FY 2014 Equip Kits TC Equip- Kits Total Installment	863	0.0	176	0.0	246	0.0	267	0.0	0	0.0	56	0.0	0	0.0	0	0.0	0	0.0	1608	0.0
Total Procurement Cost		897.3		136.7		7.0		53.9		13.6		0.0		0.0		0.0		0.0		1108.5

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Exhibit P-40, Budget Item J	Justification	Sheet						I	Date:	E-h 2010	
										February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 3 / Mod					P-1 Ite	tem Nomencla MLRS MOI	ture OS (C67500)				
Program Elements for Code B Items:		Code:	Oth	er Related Progr C67501, C65							
	Prior Years	FY 2009	FY 2010		FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog	
Proc Qty											
Gross Cost	342.8	1.9	6.9	14.2	14.4	158.4	577.5				
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	342.8	1.9	2	2.4	8.2	8.3	6.9	14.2	14.4	158.4	577.5
Initial Spares	21.3	1.0		1.0	1.0	1.0	1.1	1.1	1.1	24.2	52.8
Total Proc Cost	364.1	2.9	9.3	8.0	15.3	15.5	182.6	630.3			
Flyaway U/C											
Weapon System Proc U/C			•								

The M270A1 upgraded Multiple Launch Rocket System (MLRS) launcher provides critical missile precision strike operational shaping fires and counterfire and close support destructive and suppressive fires. The M270A1 upgraded MLRS launcher consists of a M993A1 carrier, a derivative of the Bradley Fighting Vehicle (BFV) carrier, and the M269A1 Launcher Loader Module (LLM). The system is capable of firing the MLRS Family of Munitions (MFOM) to include the Guided Multiple Launcher Rocket System (GMLRS), and the Army Tactical Missile System (ATACMS) Family of Munitions (AFOM), including precision munitions, to a range of 300 kilometers. The M270A1 is capable of firing either 12 MFOM rockets or 2 AFOM missiles from a single launcher. Additional material changes will provide operational flexibility and capability against an expanded target set.

Justification:

FY 2011 procures Enhanced Command and Control (C2), Driver's Vision Enhancement (DVE), M993A1 Carrier Upgrades, Obsolescence Mitigation/Engineering Change Proposal Integration, and other hardware and software required in support of launcher upgrades.

Exhibit P-40N	M, Budget Item Justific	cation Sheet						Date:	February 2010		
Appropriation / Budget Ao Missile Pro	Activity / Serial No: ocurement, Army / 3 / Modification	n of missiles			P-1 Item Non	nenclature RS MODS (C67500	0)				
Appropriation / Budget A	Activity / Serial No:				P-1 Item Nomeno	clature					
Program Elements for Coo	ode B Items:						Code:		telated Program Elen , C65900, 0603778A		
Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TC	Total
Inactive Mods									1		
Prior Year MCs	Oper/Safety/Reliab	291.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	291.7
Global Positioning Sys	/stem (GPS) Upgrades										
1-04-02-0568	Operational	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Obsolescence Mitigati	tion/ECP Reliability Intg										
1-99-03-Obsc	Oper/Reliab	31.3	0.3	1.0	1.3	1.6	4.9	7.9	6.2	146.4	200.9
M993A1 Carrier Upgra	rades										
1-04-02-0567	Reliability	5.1	0.3	1.4	0.5	0.3	0.1	0.0	0.0	0.0	7.8
Auxiliary Power Unit/	/Environmental Control Unit										
1-02-02-0552	Operational	14.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6
Enhanced Command &	& Control (C2)										
1-06-02-0572	Operational	0.0	0.0	13.2	5.9	6.4	1.9	0.2	0.0	0.0	27.5
Up Armor											
1-08-02-0573	Crew Survivability	0.0	0.0	0.0	0.0	0.0	0.0	6.1	8.2	12.0	26
Driver's Vision Enhance	icement (DVE)										
1-09-02-0575	Operational	0.0	0.0	6.8	0.5	0.0	0.0	0.0	0.0	0.0	7.3
Totals		342.8	1.9	22.4	8.2	8.3	6.9	14.2	14.4	158.4	577.

Date:

February 2010

MODIFICATION TITLE: Enhanced Command & Control (C2) [MOD 6] 1-06-02-0572

MODELS OF SYSTEM AFFECTED: Multiple Launch Rocket System (MLRS)

DESCRIPTION / JUSTIFICATION:

The current on-board fire control system for the M270A1 Launcher lacks the necessary Command & Control (C2) functions to meet the emerging threat found within the theater of operations for Operation Iraqi Freedom (OIF)/Operation Enduring Freedom (OEF). This requirement results in increased operational flexibility with the ability to reduce the fire support footprint, and reduce the sensor-to-shooter timeline. This increased capability will eliminate the need for Field Artillery C2 nodes in close proximity to launchers, allow timely precision strikes, and be capable of integrating with Joint assets. The effort also provides increased situational awareness on the battlefield. This enhancement will consist of adding High Frequency (HF) radios and antennas.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Enhanced C2s capability of long range communications and situational awareness has been developed and integrated on both the M270A1 and HIMARS launcher platforms. This capability is currently being evaluated by the user under a safety release. System level testing of this initial capability will begin in 2QTR10.

Installation Schedule

	Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
										31	31	31	32	9	9	9	10	13	13	14	14
ĺ											38	38	49			19	18		19	19	16

То		2017	FY 2			2016	FY 2			2015	FY:			2014	FY 2	
Complete	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
																9
															9	

METHOD OF IMPLEMENTATION:

Depot

ADMINISTRATIVE LEADTIME:

3 months

PRODUCTION LEADTIME: 9 months

Contract Dates:

FY 2010 - Jan 10

FY 2011 - Jan 11

FY 2012 - Jan 12

Delivery Dates:

FY 2010 - Oct 10

FY 2011 - Oct 11

FY 2012 - Oct 12

C67500 MLRS MODS Item No. 14 Page 3 of 6 Page 97 of 122

Exhibit P-3A Individual Modification

Date:

February 2010

MODIFICATION TITLE (cont): Enhanced Command & Control (C2) [MOD 6] 1-06-02-0572

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	09	20	10	20	11	20	12	20	13	20	14	20	15	TO		То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment					125	13.2	37	3.9	54	5.8	9	1.0							225	23.9
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2007 & Prior Equip Kits																				
FY 2008 Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits							125	2.0											125	2.0
FY 2011 Equip Kits									37	0.6									37	0.6
FY 2012 Equip Kits											54	0.9							54	0.9
FY 2013 Equip Kits													9	0.2					9	0.2
FY 2014 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	125	2.0	37	0.6	54	0.9	9	0.2	0	0.0	0	0.0	225	3.7
Total Procurement Cost		0.0		0.0		13.2		5.9		6.4		1.9		0.2		0.0		0.0		27.5

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Date:

February 2010

MODIFICATION TITLE: Driver's Vision Enhancement (DVE) [MOD 8] 1-09-02-0575

MODELS OF SYSTEM AFFECTED: Multiple Launch Rocket System (MLRS)

DESCRIPTION / JUSTIFICATION:

The Drivers Vision Enhancement (DVE) modification utilizes a vehicle mounted thermal vehicle sensor and driver's display that significantly improves the crews survivability and situational awareness. The DVE displays thermal contrast among objects and can deliver accurate images through dust, smoke, fog, or darkness. Troops equipped with DVE can easily detect personnel, vehicles, road hazards, and threat activity.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Preliminary integration of the DVE system has been conducted on the M270A1 MLRS. This preliminary integration effort confirmed the feasibility and utility of fully integrating DVEs to dramatically enhance crew survivability and situational awareness. The DVE is a non developmental item and final integration plans are complete.

Installation Schedule

uic .																					
	Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
										56	56	56	57								
											76	76	73								

Totals	1	То		2017	FY			2016	FY 2			2015	FY			2014	FY 2	
	I	Complete	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
225																		
225																		

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

3 months

PRODUCTION LEADTIME: 9 months

Contract Dates:

FY 2010 - Jan 10

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 - Oct 10

FY 2011 -

FY 2012 -

Date:

February 2010

MODIFICATION TITLE (cont): Driver's Vision Enhancement (DVE) [MOD 8] 1-09-02-0575

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	009	20	10	20	11	20	12	20	13	20	14	20	15	T	C	To	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment					225	6.8													225	6.8
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2008 & Prior Equip Kits																				
FY 2009 Kits																				
FY 2010 Equip Kits							225	0.5											225	0.5
FY 2011 Equip Kits																				
FY 2012 Equip Kits																				
FY 2013 Equip Kits																				
FY 2014 Equip Kits																				
FY 2015 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	225	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	225	0.5
Total Procurement Cost		0.0		0.0		6.8		0.5		0.0		0.0		0.0		0.0		0.0		7.3

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Exhibit P-40, Budget Item J	Justification	Sheet							Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 3 / Mod					P-1	Item Nomencla	nture MODIFICATIONS (C	267501)			
Program Elements for Code B Items:		Code:	Oth	ner Related Prog C02901, 06		Elements: 3A090, 0603778A09	93, C67500				
	Prior Years	FY 2009	FY 2010	FY 201	1	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty											
Gross Cost	47.8	33.1	7	70.9	39.4	9.8	6.4	6.6	6.7	204.7	425.4
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	47.8	33.1	7	70.9	39.4	9.8	6.4	6.6	6.7	204.7	425.4
Initial Spares	2.4	1.1		1.8	1.9	1.9	1.9	2.0	2.0	50.5	65.4
Total Proc Cost	50.1	34.2	7	72.7	41.2	11.7	8.3	8.6	8.7	255.3	490.8
Flyaway U/C											
Weapon System Proc U/C											

The M142 High Mobility Artillery Rocket System (HIMARS), is a C-130 Transportable launcher mounted on a Family of Medium Tactical Vehicles (FMTV) chassis. The HIMARS is capable of firing either six Multiple Rocket Launcher System (MLRS) Family of Munitions (MFOM) rockets or one Army Tactical Missile System (ATACMS) Family of Munitions (AFOM) missile to a range of 300 kilometers. Modification kits will be procured for the HIMARS Launcher and associated training and ground support equipment. These modifications are vital to the Forces and will provide an increase in crew protection via an Increased Crew Protection (ICP) cab, decrease Operations and Support costs, reduce logistical impacts, resolve safety issues, and mitigate obsolescence. Additional material changes will provide operational flexibility, and capability against an expanded target set.

Justification:

FY 2011 Base procurement dollars in the amount of \$39.371 million support the ICP Cab, Enhanced Command and Control (C2), and the Universal Fire Control Systems (UFCS) modification programs.

Exhibit P-40M,	Budget Item Justific	ation Sheet						Date:	February 2010		
Appropriation / Budget Acti Missile Procu	ivity / Serial No: arement, Army / 3 / Modification	of missiles			P-1 Item Non	nenclature IARS MODIFICAT	TIONS (C67501)				
Appropriation / Budget Acti	ivity / Serial No:				P-1 Item Nomeno	clature					
Program Elements for Code	B Items:				•		Code:		elated Program Elei , 0603778A090, 060		00
Description		Fiscal Years									
OSIP No.	Classification	Prior Yrs.	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TC	Total
Enhanced Command and	d Control (C2)									'	
1-06-02-0571	Operational	0.0	0.0	19.3	14.3	2.1	0.0	0.0	0.0	0.0	35.7
Universal Fire Control S	ystem										
1-05-02-0568	Operational	24.1	8.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	39.5
Increased Crew Protection	on (ICP) Cab										
1-05-02-0569	Crew Survivability	9.2	21.7	41.6	22.3	5.2	0.2	0.0	0.0	0.0	100.1
Reliability/Obsolescence	e Mitigation										
1-03-02-0556	Oper/Reliab/Safety	10.9	2.6	3.3	2.8	2.5	6.2	6.6	6.7	204.7	246.3
PNU/GPS Upgrades											
1-04-02-0569	Operational	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Add on Armor (AoA)											
1-05-02-0570	Crew Survivability	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
Totals		47.8	33.1	70.9	39.4	9.8	6.4	6.6	6.7	204.7	425.4

Date:

February 2010

MODIFICATION TITLE: Enhanced Command and Control (C2) [MOD 1] 1-06-02-0571

MODELS OF SYSTEM AFFECTED: High Mobility Artillery Rocket System (HIMARS)

DESCRIPTION / JUSTIFICATION:

The current on-board fire control system for the M142 HIMARS Launcher lacks the necessary Command & Control (C2) functions to meet the emerging threat found within the theater of operations for Operation Iraqi Freedom /Operation Enduring Freedom. This requirement results in increased operational flexibility with the ability to reduce the fire support footprint, and reduce the sensor-to-shooter timeline. This increased capability will eliminate the need for Field Artillery C2 nodes in close proximity to launchers, allow timely precision strikes, and will be capable of integrating with Joint assets. The effort also provides increased situational awareness on the battlefield. This enhancement will consist of adding High Frequency radios and antennas.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Enhanced C2s capability of long range communications and situational awareness has been developed and integrated on both the M270A1 and HIMARS launcher platforms. This capability is currently being evaluated by the user under a safety release. System level testing of this initial capability will begin in 2QTR10.

Installation Schedule

Pr Yr		FY	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
									61	61	61	61	61	51	19					
									38	57	76	73	38	19	38	36				

	FY	2014			FY 2	2015			FY 2	2016			FY 2	2017		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
																	375
																	375

METHOD OF IMPLEMENTATION: Depot ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 9 months

Contract Dates: FY 2010 - Jan 10 FY 2011 - Jan 11 FY 2012 -

Delivery Dates: FY 2010 - Oct 10 FY 2011 - Oct 11 FY 2012 -

Date:

February 2010

MODIFICATION TITLE (cont): Enhanced Command and Control (C2) [MOD 1] 1-06-02-0571

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	009	20	10	20	11	20	12	20	13	20	14	20	15	T	C	Tot	ıal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment					244	19.3	131	10.4											375	29.7
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2007 & Prior Equip Kits																				
FY 2008 Kits																				
FY 2009 Equip Kits																				
FY 2010 Equip Kits							244	3.9											244	3.9
FY 2011 Equip Kits									131	2.1									131	2.1
FY 2012 Equip Kits																				
FY 2013 Equip Kits																				
FY 2014 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	0	0.0	0	0.0	244	3.9	131	2.1	0	0.0	0	0.0	0	0.0	0	0.0	375	6.0
Total Procurement Cost		0.0		0.0		19.3		14.3		2.1		0.0		0.0		0.0		0.0		35.7
									1		1									

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Date:

February 2010

MODIFICATION TITLE: Universal Fire Control System [MOD 2] 1-05-02-0568

MODELS OF SYSTEM AFFECTED: High Mobility Artillery Rocket System (HIMARS)

DESCRIPTION / JUSTIFICATION:

The Universal Fire Control System is an upgrade providing improvements to the current M142 HIMARS Launcher's Improved Fire Control System. This program is required to mitigate HIMARS Full Rate Production (FRP) obsolescence issues with the Power Personal Computer 2 Executive Processor (PPC2EP) Circuit Card Assembly (CCA) and the 10 Base 2 system interface. This modification will reduce the quantity of executive processor circuit cards, eliminate an unused MIL-STD-1553 system bus interface, and eliminate other components such as the Tactical Processor Unit (TPU), Mass Storage Unit, and the Programmable Communications Controller circuit card. The addition of a 10/100 Base T system interface provides future growth for obsolescence mitigation and operational concerns. Replacing the PPC2EP CCA with the PPC7ECP (Power Personal Computer 7 Executive Processor) CCA, the fire control system will mitigate obsolescence to both future productions and fielded launchers and will reduce the number of CCA required to support the fleet. By decreasing the Line Replaceable Units (LRU) and CCA's, there will be reduced Operational and Support costs, reduced electrical power requirements and increased vehicle space and stowage availability. The procurement effort is planned for the acquisition of a total of 121 kits for the M142 HIMARS Launchers covering launchers bought from Low Rate Initial Production Years 1-3 and FRP Year 1.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

A contract modification was signed in 2QFY05, which authorized engineering development of the Universal Fire Control System. The Preliminary Design Review (PDR) took place in 3QFY05 and the Critical Design Review occurred in 4QFY05. LRU qualification tests were conducted in FY07. Functional Configuration Audits are complete and system level tests were conducted in 2QFY08. The Universal Fire Control System was cut into FRP2 in FY08.

Installation Schedule

Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
20	10	10	10	10	16	15	15	15	10	10	9	9								
20			19	21		19	19	23			19	19				·				

	FY	2014			FY 2	2015			FY 2	2016			FY 2	2017		То	Totals
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
																	159
																	159

METHOD OF IMPLEMENTATION: Depot ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 13 months

Contract Dates: FY 2010 - Nov 10 FY 2011 - FY 2011 -

Delivery Dates: FY 2010 - Dec 11 FY 2011 - FY 2011 -

Date:

February 2010

MODIFICATION TITLE (cont): Universal Fire Control System [MOD 2] 1-05-02-0568

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	09	20	10	20	11	20	12	20	13	20	14	20	15	TO		То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity	60	1.4	61	1.4	38	0.1													159	2.9
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment	32	6.0	55	6.5	38	6.6													125	19.1
Equipment, Nonrecurring	34	16.4																	34	16.4
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment	17	0.3	32	0.8															49	1.1
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 2007 & Prior Equip Kits	20																		20	
FY 2008 Kits			40																40	
FY 2009 Equip Kits					61														61	
FY 2010 Equip Kits							38												38	
FY 2011 Equip Kits																				
FY 2012 Equip Kits																				
FY 2013 Equip Kits																				
FY 2014 Equip Kits																				
TC Equip- Kits																				
Total Installment	20	0.0	40	0.0	61	0.0	38	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	159	0.0
Total Procurement Cost		24.1		8.7		6.7		0.0		0.0		0.0		0.0		0.0		0.0		39.5

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Date:

February 2010

MODIFICATION TITLE: Increased Crew Protection (ICP) Cab [MOD 3] 1-05-02-0569

MODELS OF SYSTEM AFFECTED: High Mobility Artillery Rocket System (HIMARS)

DESCRIPTION / JUSTIFICATION:

The original M142 HIMARS launcher cab did not meet the Army policy to provide armor protection for all tacticle wheeled vehicles. The HIMARS vehicle and cab is a derivative of the Family of Medium Tactical Vehicles (FMTV) and the FMTV initial design required no ballistic protection to its vehicles. Based on the results of Operation Iraqi Freedom/Operation Enduring Freedom the need for the cab to be protected against specified threats was validated. In addition to common threats to tactical wheel vehicles, protection against the launcher blast and foreign object debris is also required. Without this modification the HIMARS crew will lack adequate crew protection from IEDs and other ballistic threats.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Development of the ICP Cab began 1QFY06 and was initiated with engineering trade-off analyses to determine the best technical approach over the ballistic protection needs and the mobility/vehicle weight restrictions of the M142 Launcher / M1140 FMTV Carrier. The System Requirements Review In-Process Review occurred in 4QFY06 and the Preliminary Design Review took place in 1QFY07. The Critical Design Review occurred in 3QFY07. Full Development for this program will complete in FY09. The ICP cab design has completed all required system level testing. The ICP cab is currently being produced on Full Rate Production (FRP) 4.

Installation Schedule

Pr Yr		FY 2	2009			FY 2	2010			FY 2	2011			FY 2	2012			FY 2	2013	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	5	5	5	4	13	13	12	12	24	24	24	23	12	12	12	12	10			
				19			38	12		38	19	38		19		29		10		

Totals	То		2017	FY :			2016	FY 2			2015	FY :			2014	FY 2	
	Complete	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
222																	
222																	

METHOD OF IMPLEMENTATION:

Depot

ADMINISTRATIVE LEADTIME:

3 months

PRODUCTION LEADTIME: 9 months

E: 9 monus FY 2012 - Jan 12

Contract Dates: Delivery Dates: FY 2010 - Jan 10 FY 2010 - Oct 10 FY 2011 - Jan 11 FY 2011 - Oct 11

FY 2012 - Oct 12

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Date:

February 2010

MODIFICATION TITLE (cont): Increased Crew Protection (ICP) Cab [MOD 3] 1-05-02-0569

FINANCIAL PLAN: (\$ in Millions)

	Prior	Yrs.	20	09	20	10	20	11	20	12	20	13	20	14	20	15	T	С	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
Procurement																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment	19	9.2	50	21.2	95	40.8	48	20.7	10	4.4									222	96.2
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other				0.5																0.5
Interim Contractor Support																				
Installation of Hardware																				
FY 2007 & Prior Equip Kits			19																19	
FY 2008 Kits																				
FY 2009 Equip Kits					50	0.8													50	0.8
FY 2010 Equip Kits							95	1.6											95	1.6
FY 2011 Equip Kits									48	0.8									48	0.8
FY 2012 Equip Kits											10	0.2							10	0.2
FY 2013 Equip Kits																				
FY 2014 Equip Kits																				
TC Equip- Kits																				
Total Installment	0	0.0	19	0.0	50	0.8	95	1.6	48	0.8	10	0.2	0	0.0	0	0.0	0	0.0	222	3.4
Total Procurement Cost		9.2		21.7		41.6		22.3		5.2		0.2		0.0		0.0		0.0		100.1
	<u> </u>			l		l	1		l	1		1		I	l	l	<u> </u>			

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Exhibit P-40, Budget Item J	Justification	Sheet								Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 3 / Mod					P	9-1 It	tem Nomencla HELLFIRE	ture Modifications (C715	500)			
Program Elements for Code B Items:		Code:		Other Re	elated Progra	m El	lements:					
	Prior Years	FY 2009	FY 2	2010	FY 2011		FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty												
Gross Cost	20.6			0.0	0	.0						20.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc P1	20.6			0.0	0	.0						20.6
Initial Spares												
Total Proc Cost	20.6			0.0	0	.0						20.6
Flyaway U/C												
Weapon System Proc U/C												

The HELLFIRE family of air-to-ground missiles provides precision kill capability against heavy, advanced armor and individual hard point targets. Laser HELLFIRE uses semi-active laser terminal guidance and is the primary anti-tank armament of the AH 64 Apache, OH-58 Kiowa Warrior, and special operations helicopters. Longbow HELLFIRE is a missile system that provides the Army with a fire-and-forget, anti-armor capability for the Apache Longbow and future helicopters. The fire-and-forget Longbow HELLFIRE system greatly increases aircraft survivability and dramatically improves target acquisition and engagement capabilities in adverse weather when the battlefield is obscured (smoke, fog, dust), and when the threat is using countermeasures. The HELLFIRE modifications will convert the existing missile variants from the current configuration to a new variant to support the warfighters immediate operational requirements. These modifications could include, but would not be limited to, retro fits, warhead conversions, software modifications, modifications to systems performance and alternative platforms.

Justification:

Note: There is \$.010 million of funds in FY11, supporting Hellfire Modifications and keeping the budget line open.

Exhibit P-40M, B	Sudget Item Justific	ation Sheet						Date:	February 2010)	
Appropriation / Budget Activity Missile Procure	y / Serial No: ment, Army / 3 / Modification	of missiles			P-1 Item Non	nenclature LLFIRE Modificati	ons (C71500)	1			
Appropriation / Budget Activity	y / Serial No:				P-1 Item Nomeno	clature					
Program Elements for Code B	tems:						Code:	Other R	elated Program Ele	ments:	
Description		Fiscal Years					•	•			
OSIP No.	Classification	Prior Yrs.	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TC	Total
Unmanned Aerial Systems	(UAS) Conversions									'	
0-00-00-0000	Added Capability	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
Rocket Motor Refit											
0-00-00-0000	Operational	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6
Totals		17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0

Exhibit P-40, Budget Item	Justification	Sheet							Date:	February 2010	
Appropriation / Budget Activity / Se Missile Procurement, Army / 4 / S					P-1	Item Nomencla SPARES AI	ture ND REPAIR PARTS	G (CA0250)			
Program Elements for Code B Items	:	Code:	О	other Re	elated Program	Elements:					
	Prior Years	FY 2009	FY 20	10	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty											
Gross Cost	244.2	25.9		22.3	19.6	10.6	10.9	11.0	10.1	165.2	519.7
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	244.2	25.9		22.3	19.6	10.6	10.9	11.0	10.1	165.2	519.7
Initial Spares											
Total Proc Cost	244.2	25.9		22.3	19.6	10.6	10.9	11.0	10.1	165.2	519.7
Flyaway U/C											
Weapon System Proc U/C											

Provides for the procurement of spares to support initial fielding of new or modified end items.

Justification:

The funds in this account procure depot level reparable (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. To provide initial support, funds are normally required in the same year that end items are fielded. FY 2011 funds will procure Patriot Mods, MLRS Mods, and HIMARS/HIMARS Mods initial spares.

FY 11 (\$M)

HIMARS \$ 9.706 HIMARS Mods 1.856 MLRS Mods 1.014 Patriot Mods 6.993 Total \$19.569

Exhibit P-40, Budget Item J	Justification	Sheet						I	Date:	February 2010	
										1 cordary 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 5 / Supp		ilities			P-1	Item Nomencla	ture NSE TARGETS (C93	3000)			
Program Elements for Code B Items:		Code:	de: Other Related Program Elements:								
	Prior Years	FY 2009	FY 201	.0	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty											
Gross Cost	398.1	6.4		4.2	3.6	3.7	3.8	3.8	3.9	Continuing	Continuing
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	398.1	6.4		4.2	3.6	3.7	3.8	3.8	3.9	Continuing	Continuing
Initial Spares	1.3										1.3
Total Proc Cost	399.4	6.4		4.2	3.6	3.7	3.8	3.8	3.9	Continuing	Continuing
Flyaway U/C											
Weapon System Proc U/C										Continuing	Continuing

The Air Defense Artillery (ADA) Targets program provides target hardware, scoring ancillary equipment, payload equipment and ground support equipment for worldwide active Army and National Guard Air Defense Artillery training. This training consists of DA Pamphlet 350-38 (Standards in Training Commission) required gunnery tables and aerial target tracking, training and scoring.

Justification:

FY11 base procurement dollars of \$3.613 million procures Air Defense Artillery Targetry and ancillary hardware consisting of scoring devices, aerial payloads and ground support equipment in support of DA PAM 350-38, Standards in Training Commission (STRAC) derived required gunnery tables, aerial target tracking (Captive Flight Trainer (CFT) and Tracking Head Trainer (THT)) training as well as targets for Missile Live Fire training when missiles are allocated IAW the Missile Distribution Plan (MIDP). These targets support the U.S. Army Avenger systems worldwide. Training requirements are generated by Department of the Army Major Field Commands, Training Centers, Division Level Commands and real world mission rehearsals. These field requirements have been reviewed and validated against ongoing force restructuring and are consistent with the approved training doctrine. These targets are necessary to meet Army Regulation 220-1 (Unit Status Reporting) training requirements, training strategies and gunnery standards, and are essential to qualify soldiers in support of unit readiness.

Exhibit P-5, Weapon MSLS Cost Analysis	Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 5 / equipment and facilities		P-1 Line Item Nomenclature: AIR DEFENSE TARGETS (C93000)					п Туре:	Date: February 2010		
MSLS		ID	ID FY 09				FY 10	•	•	FY 11	
Cost Elemen	ts	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
HARDWARE											
Remotely Piloted Vehicle Target (RPVT)		A	1573	300	5	1560	260	6	1225	175	7
Scoring (Sensors)		A	1125	250	5	375	75	5	300	50	6
Ground Station		A	660	6	110						
RPVT Beyond Visual Range (BVR) Payload		A	62	6	10	220	20	11	240	20	12
Scoring (Airborne Kit)		A	1287	93	14	450	30	15	320	20	16
HARDWARE COSTS			4707			2605			2085		
SUPPORT											
Program Management Support			1284			1270			1218		
Logistics/Field Svc Support			290			300			310		
Hardware Qualification Test			142								
SUPPORT COSTS			1716			1570			1528		
Total:			6423			4175			3613		

Exhibit P-5a, Budget Procurement I	History and Planning							Date: February	2010	
Appropriation/Budget Activity/Serial No: Missile Procurement, Army/ 5/ Support equipment as	Weapon System Type:		Nomenclature: SE TARGETS (C93000)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Remotely Piloted Vehicle Target (RPVT)										
FY 2009	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	May 09	Aug 09	300	5	YES		Aug 08
FY 2010	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	Mar 10	Jun 10	260	6	YES		
FY 2011	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	Mar 11	Jun 11	175	7	YES		
Scoring (Sensors)										
FY 2009	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	May 09	Jul 09	250	5	YES		Aug 08
FY 2010	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	Mar 10	Jun 10	75	5	YES		
FY 2011	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	Mar 11	Jun 11	50	6	YES		
Ground Station										
FY 2009	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	May 09	Jul 09	6	110	YES		Aug 08
RPVT Beyond Visual Range (BVR) Payload										
FY 2009	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	May 09	Jul 09	6	10	YES		Aug 08
FY 2010	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	Mar 10	Jun 10	20	11	YES		
FY 2011	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	Mar 11	Jun 11	20	12	YES		
Scoring (Airborne Kit)										
FY 2009	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	May 09	Aug 09	93	14	YES		Aug 08
FY 2010	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	Mar 10	Jun 10	30	15	YES		
FY 2011	Griffon Aerospace Inc. Madison, AL	C/FFP	AMCOM	Mar 11	Jun 11	20	16	YES		

REMARKS:

Exhibit P-40, Budget Item J	Justification	Sheet						I	Date:	February 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 5 / Supp		ilities			P-1	Item Nomencla	iture SS THAN \$5.0M (M	ISSILES) (CL2000)			
Program Elements for Code B Items:		Code:	C	Other R	elated Program	Elements:					
	Prior Years	FY 2009	FY 20	010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty											
Gross Cost	42.7	0.0		1.2	1.2	1.5	1.5	1.5	1.5		51.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	42.7	0.0		1.2	1.2	1.5	1.5	1.5	1.5		51.2
Initial Spares											
Total Proc Cost	42.7	0.0		1.2	1.2	1.5	1.5	1.5	1.5		51.2
Flyaway U/C											
Weapon System Proc U/C											
Description:											

Provides for the procurement of various tools and shop sets to support the Army's missile systems worldwide.

Justification:

Funding will procure tools and shop sets to support Patriot, TOW, Multiple Launch Rocket System (MLRS), High Mobility Artillery Rocket System (HIMARS), and Avenger.

Exhibit P-5, Weapon MSLS Cost Analysis Appropriation/Budget Activity/Serial No: Missile Procurement, Army / 5 / Support equipment and facilities				P-1 Line Item Nomenclature: ITEMS LESS THAN \$5.0M (MISSILES) (CL2000)					m Type:	Date:	February 2010
MSLS	ID		FY 09			FY 10			FY 11		
Cost Elements			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Various Systems:											
Shop Sets / Tools			10			1174			1208	8	
Total:			10			1174			1208	8	

Exhibit P-40, Budget Item J	Justification	Sheet		I	Date:	February 2010					
										1 cordary 2010	
Appropriation / Budget Activity / Seria Missile Procurement, Army / 5 / Supp		ilities			P-1	Item Nomencla PRODUCT	iture ION BASE SUPPOR	T (CA0100)			
Program Elements for Code B Items:		Code:	Oth	ner Related	Program	Elements:					
	Prior Years	FY 2009	FY 2010) FY	2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total Prog
Proc Qty											
Gross Cost	630.4	4.1		4.4	4.5	5.1	5.2	5.3	5.4		664.3
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc P1	630.4	4.1		4.4	4.5	5.1	5.2	5.3	5.4		664.3
Initial Spares											
Total Proc Cost	630.4	4.1		4.4	4.5	5.1	5.2	5.3	5.4		664.3
Flyaway U/C											
Weapon System Proc U/C			·								

This program provides Production Base Support and Equipment Replacement (PSR) of Government-owned equipment used in production and production testing of missile systems or missile components.

Justification:

FY 2011 funds will be used to establish, modernize, expand or replace Army-owned industrial facilities. These funds are essential to sustain the Army's missile warhead production capability to eliminate safety hazards by replacing worn equipment, and to refurbish facilities.

Exhibit P-40, Budget Item 3	Justification	Sheet							Date:		February 201	0
Appropriation / Budget Activity / Seria Missile Procurement, Army / 5 / Sup		ilities			P-1	Item Nomencla PIF FOR O	ture ΓHER (CA4002)					
Program Elements for Code B Items:		Code:		Other Ro	elated Program	Elements:						
	Prior Years	FY 2009	FY	2010	FY 2011	FY 2012	FY 2013	FY 2014	FY	2015	To Complet	e Total Prog
Proc Qty												
Gross Cost	331.9	4.1		4.4	4.5	5.1	5.1	5.	2	5.3	Continui	ng Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc P1	331.9	4.1		4.4	4.5	5.1	5.1	5.	2	5.3	Continui	ng Continuing
Initial Spares												
Total Proc Cost	331.9	4.1		4.4	4.5	5.1	5.1	5.	2	5.3	Continui	ng Continuing
Flyaway U/C												
Weapon System Proc U/C											Continui	ng Continuing
P-40 Breakdown												
Area		FY 200)9	FY	2010	FY 2011	FY 2012	FY 2	2013	F	Y 2014	FY 2015
Active	Qty		0)	0	0		0	0		0	0
	Gross Cost		4106.0)	4384.0	4510.0	505	2.0	5141.0		5225.0	5309.0
National Guard	Qty		0)	0	0		0	0		0	0
	Gross Cost		0.0)	0.0	0.0		0.0	0.0		0.0	0.0
Reserve	Qty		0)	0	0		0	0		0	0
	Gross Cost		0.0)	0.0	0.0		0.0	0.0		0.0	0.0
Total	Qty		0)	0	0		0	0		0	0
· · · · · · · · · · · · · · · · · · ·	Gross Cost		4106	;	4384	4510	50)52	5141		5225	5309

This program provides funding to the Army Test and Evaluation Command (ATEC), Developmental Test Command (DTC) to establish, modernize, expand or replace test facilities used in production testing of missiles and missile components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at the Redstone Test Center (RTC), Huntsville, AL and White Sands Missile Range (WSMR), NM.

Iowa Army Ammunition Plant (AAP): This program provides funding for Iowa Army Ammunition Plant's (AAP's) continuing modernization of production capability for missile end items.

Justification:

ATEC: FY 11 Base procurement dollars in the amount of \$2.211 million supports the following: At RTC, it will provide for state-of-the-art instrumentation to control and monitor temperature during shock, impact, and vibration testing of small missile systems; high speed digital data recorders, wideband receivers, and high speed thermal array recorders to receive, record, and display

Exhibit P-40, Budget Item Justific	ation Sheet			Date: February 2010
Appropriation / Budget Activity / Serial No: Missile Procurement, Army / 5 / Support equipme	ent and facilities		P-1 Item Nomenclature PIF FOR OTHER (CA4002)	
Program Elements for Code B Items:	Code:	Other Related Prog	gram Elements:	
replacement of signal conditioning equipment are spheres, rotary table, motion controller, customic procure new equipment for the Warheads Test B collect, record and analyze the physical environment during missile pre-launch monitoring; and environg the instrumentation being upgraded or replaces afety and environmental hazards are minimized Iowa AAP: FY 11 Base procurement dollars in the and retaining ring prior to assembly. The currer out. The effort will also purchase and install five presses are operating simultaneously at different improving the quality of the explosive billet. Toold, and is constantly being repaired. It will also	and fiber optics for rocket in zed software analysis tools aranch to remotely control ments on and near the Lau commental conditioning chart is obsolete and has met. Benefits of this project the amount of \$2.299 milling the method of drilling require heat exchangers for war temperatures. This project is effort will rehabilitate or replace the existing comments.	notor static firing tests; as and instrumentation to and monitor hazardous incher during weapon firit ambers used to simulate or exceeded its economic include increased test efforts supports the purchase ires the body be held in a rhead presses in Building ect will provide individuative vertical test fire framapressor in Building 1-02	and optical components such as lens and mi upgrade the current night vision sensor (Notesting on live ordnance and record test dataing events and provide specific test parame extreme temperature, humidity, altitude and it life. This instrumentation is required to efficiencies and decreased costs and risks to be and installation of two computer numerican upside-down position for drilling, increase 4B-22. The existing units are beyond their all heat exchangers dedicated to each press and work at Firing Station (FS) 6. The curred which is antiquated, inadequate for its pur	er controllers that are outdated and unsupportable; irrors, temperature sources, Blackbodies, integrating VS) test infrastructure. At WSMR, the effort will a from a safe distance; multiple types of sensors that eters such as temperature, pressure, noise, and vibration d Microbiological (Fungus) environments. The majorit ensure complete and accurate test data is collected and Army Program Managers. controlled (CNC) drill machines for drilling the body using the chance that the explosive billet can shift or slid reconomic life and difficulties arise when multiple allowing the presses to run independently and potentiall ent fixture is a very large welded structure, over 30 year prose, and parts are difficult to obtain. This project also applicable Army regulations (AR 385-64) and assure safe

Exhibit P-40C,	Budget Iten	ı Justifica	ation Sl	neet			Date: February 2010
Appropriation / Budget Act Missile Proce	ivity / Serial No: urement, Army / 5 /	Support equip	ment and fa	acilities		P-1 Item Nomenclature PIF FOR OTHER (CA4002)	
Program Elements for Code	B Items:		Co	ode:	Other Related Program	Elements:	
Γitle:			·				
Comment: Benefits of t	this project include	increased test	efficiencies	and decreased	l costs and risks to Army Pr	rogram Managers.	
U.S. Army Test and Evanstrumentation is used to						I million supports the equipment used for testing	g of production missile systems and components. This test
owa AAP: FY 11 Bas	e procurement dolla	ars in the amou	nt of \$2.29	9 million supp	oorts the production capabil	ity for missile end items.	
PIF FOR OTHER (MIS	SILE APPROPRIA	TION - CA400	02) (\$M)				
LOCATION	PROJECT	FY09	FY10	FY11			
Redstone Tech Test Center, Huntsville, AL; White Sands Missile Range, NM	N/A	2.015	2.148	2.211			
lowa AAP, Middletown, IA	6XX5333	2.091	2.236	2.299			
ГОТАL		4.106	4.384	4.510			

Exhibit P-40C, Budget It		Date: February 2010)				
Appropriation / Budget Activity / S Missile Procurement, Army/5/Su		s		P-1 Item Nomenclature PIF FOR OTHER (CA4002)			
Program Elements for Code B Items:		Code:	Other Related Program	m Elements:			
<u>Location</u> Production Support		Project Title	<u>e</u>	<u>Project</u>	FY 2009	FY 2010	FY 2011
Iowa Army Ammunition Plant	Production Suppor Subtotal - Produc		placement	6XX5333	2091 2,091	2236 2,236	2299 2,299
<u>Environmental</u>	Subtotal - Enviro	nmental			0	0	0
	Fotal Industrial Faci	ilities			2,091	2,236	2,299

Exhibit P-25, Production Su	1. Date: February 2010			
2. Project Title/Type Production Support Equipment Replacemen		3. End Item Supported Model Missile Warheads		
4. Project Number: 6XX5333	5. Annual Capacity Before (1-8-5) N/A		6. Annual Capacity After (1-8-5): N/A	

Element of Cost	FY 09	FY 10	FY 11	H. Facility						
A. Construction Cost		34	45	1. Name: <u>Iowa Army Amr</u>			munition Plant			
B. Equipment Cost* (Individual equipment cost should be	1719	1799	1861	2. Location: Middletown, Iowa						
specified for all equipment costing more than \$0.5 Million)				3. Type (GOGO, GOCO, COCO): GOCO						
1.				I. Related Projects						
2.				Project	Title	FY &	Value	Facing	Start	Compl
3.				Number		Appn	(\$ Mil)		Date	Date
Subtotal Costs	1719	1799	1861							
C. Equipment Installation Cost	355	382	372							
D. Contractor Support Cost	17	21	21							
E. Corps of Engineers Support Cost										
F. Other In-House Support Cost										
Total Facility Project Cost	2091	2236	2299	J. Principal Milesto		Month & Year				
G. Other Costs				1. Concep		Not Applicable				
1. Facility Prove-out Cost				2. Final Design Complete:			May 2011			
2. Material Construction Appn.				3. Initial/Final Project Award:			Mar 2011/Jun 2011			
				4. Constru		<u>Aug 2012</u>				
				5. Equipment Installation Complete:			<u>Sep 2012</u>			
				6. Prove Out Begins:			<u>Sep 2012</u>			
				7. Prove Out Complete:			<u>Sep 2012</u>			

Narrative Explanation:

FY 11 Base procurement dollars in the amount of \$2.299 million supports numerous efforts at Iowa Army Ammunition Plant to include: the purchase and installation of two computer numeric controlled (CNC) drill machines for drilling the body and retaining ring prior to assembly. The current method of drilling requires the body be held in an upside-down position for drilling, increasing the chance that the explosive billet can shift or slide out. The effort will also purchase and install five heat exchangers for warhead presses in Building 4B-22. The existing units are beyond their economic life and difficulties arise when multiple presses are operating simultaneously at different temperatures. This project will provide individual heat exchangers dedicated to each press allowing the presses to run independently and potentially improving the quality of the explosive billet. This effort will rehabilitate the vertical test fire frame work at Firing Station (FS) 6. The current fixture is a very large welded structure, over 30 years old, and is constantly being repaired. It will also replace the existing compressor in Building 1-02 which is antiquated, inadequate for its purpose, and parts are difficult to obtain. Finally, this project supports the reconstruction of the existing lighting protection systems in buildings on Line 1, active explosive area, in order to comply with applicable Army regulations (AR 385-64) and assure safe and secure operations with explosive materials.