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

February 2012



## **Army**

Justification Book

Missile Procurement, Army

**UNCLASSIFIED** 

## 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, \$1,352,342,000 to remain available for obligation until September 30, 2015.

#### **DEPARTMENT OF THE ARMY**

# FY 2013 PROCUREMENT PROGRAM (WORKSETS INCLUDED) President's Budget 2013

**DATE:** 4 -Feb - 2012 8:10

**EXHIBIT P-1** 

#### **TABLE OF CONTENTS**

	PAGE
SUMMARY BY APPROPRIATION	2
SUMMARY BY ACTIVITY:	
Missile Procurement, Army	3
ACTIVITY: 02 Other missiles	4
ACTIVITY: 03 Modification of missiles	5
ACTIVITY: 04 Spares and repair parts	6
ACTIVITY: 05 Support equipment and facilities	7
NOMENCLATURE INDEX	8
SSN INDEX	9

#### **DEPARTMENT OF THE ARMY**

## FY 2013 PROCUREMENT PROGRAM (WORKSETS INCLUDED) President's Budget 2013

**DATE:** 4-Feb-2012 8:10

**EXHIBIT P-1** 

APPROPRIATION SUMMARY APPROPRIATION

Missile Procurement, Army

TOTAL PROCUREMENT PROGRAM

#### **DOLLARS IN THOUSANDS**

PAGE	FY2013 Total	Y2013 OCO	FY2013	FY2012	FY2011
2	1,352,342	49,653	1,302,689	1,587,779	1,823,334
	1,352,342	49,653	1,302,689	1,587,779	1,823,334

#### **DEPARTMENT OF THE ARMY**

## FY 2013 PROCUREMENT PROGRAM (WORKSETS INCLUDED) President's Budget 2013

**EXHIBIT P-1 DATE:** 4-Feb-2012 8:10

# APPROPRIATION Missile Procurement, Army

## **DOLLARS IN THOUSANDS**

	ACTIVITY	FY2011	FY2012	FY2013	FY2013 OCO	FY2013 Total	PAGE
02	Other missiles	1,636,619	1,468,495	1,076,102	49,653	1,125,755	4
03	Modification of missiles	157,981	100,408	208,099		208,099	5
04	Spares and repair parts	19,458	8,700	7,864		7,864	6
05	Support equipment and facilities	9,276	10,176	10,624		10,624	7
	APPROPRIATION TOTALS	1,823,334	1587,779	1,302,689	49,653	1,352,342	

#### **DEPARTMENT OF THE ARMY**

# FY 2013 PROCUREMENT PROGRAM (WORKSETS INCLUDED) President's Budget 2013

**EXHIBIT P-1 DATE:** 4-Feb-2012 8:10

APPROPRIATION Missile Procurement, Army ACTIVITY 02 Other missiles				DOLLARS IN THOUSANDS								
LINE NO ITEM NOMENCLATURE		ID	FY QTY	2011 COST	FY 2 QTY	2012 COST	FY 2 QTY	2013 COST	FY 20° QTY	13 OCO COST	FY 2013 QTY	3 TOTAL COST
Surface-To-Air Missile System												
1 Patriot System Summary (C49100)		А	78	628,422	88	662,231	84	646,590			84	646,590
2 MSE Missile (C53101)						74,953		12,850				12,850
3 Surface-Launched AMRAAM System Su	ummary: (C81001)	Α		2,355								
SUB-ACTIVITY TO	OTAL		-	630,777	_	737,184	_	659,440			-	659,440
Air-To-Surface Missile System												
4 Hellfire Sys Summary (C70000)		Α	1,473	222,160	907	108,966		1,401	161	29,100	161	30,501
SUB-ACTIVITY TO	OTAL		-	222,160	_	108,966	_	1,401	-	29,100	-	30,501
Anti-Tank/Assault Missile Syste	em											
5 Javelin (AAWS-M) System Summary (Co	C0007)		715	163,009	710	160,767	400	81,121			400	81,121
6 TOW 2 System Summary (C59300) Less: Advance Procurement (PY)		А	_	(88,605)	802	(107,031) (-48,355)	1,403	(84,598) (-19,886)			1,403	(84,598) (-19,886)
7 TOW 2 System Summary (C59300) Advance Procurement (CY)				88,605 48,355		58,676 19,886		64,712 19,931				64,712 19,931
8 Guided MLRS Rocket (GMLRS) (C6440	0)		2,592	264,548	3,204	333,167	1,608	218,679	186	20,553	1,794	239,232
9 MLRS Reduced Range Practice Rockets	s (RRPR) (C65405)		2,149	15,796	2,370	18,175	2,430	18,767			2,430	18,767
10 High Mobility Artillery Rocket System (H	IMARS) (C02901)		44	203,369		31,674		12,051				12,051
SUB-ACTIVITY TO	OTAL		•	783,682	_	622,345	_	415,261	-	20,553	-	435,814
ACTIVITY TOTAL			-	1,636,619	_	1,468,495	_	1,076,102	-	49,653	-	1,125,755

#### **DEPARTMENT OF THE ARMY**

# FY 2013 PROCUREMENT PROGRAM (WORKSETS INCLUDED) President's Budget 2013

**EXHIBIT P-1 DATE**: 4-Feb-2012 8:10

APPROPRIATION Missile Procurement, Army	<b>ACTIVITY</b> 03 Modification of missiles	odification of missiles DOLLARS IN THOUSANDS									
LINE		FY 2011		11 FY 2012		FY	FY 2013		FY 2013 OCO		3 TOTAL
NO ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Modifications											
11 Patriot Mods (C50700)			56,849	)	66,925		199,565	5			199,565
12 ITAS/TOW Mods (C61700)			53,805	5	13,577						
13 MLRS Mods (C67500)			8,170	)	8,236		2,466	6			2,466
14 HIMARS Modifications (C67501)			39,149	)	11,670		6,068	3			6,068
15 HELLFIRE Modifications (C71500)			8	3							
SUB-ACTIVITY TOTAL			157,981	ī	100,408	}	208,099	9			208,099
ACTIVITY TOTAL			157,981	<u>.</u> I	100,408		208,099	9		•	208,099

#### **DEPARTMENT OF THE ARMY**

# FY 2013 PROCUREMENT PROGRAM (WORKSETS INCLUDED) President's Budget 2013

**DATE:** 4-Feb-2012 8:10

**EXHIBIT P-1** 

APPROPRIATION Missile Procurement, Army	<b>ACTIVITY</b> 04 Spares and repair parts	VITY 04 Spares and repair parts DOLLARS IN THOUSANDS									
LINE		FY 2011		FY 2012		FY 2013		FY 2013 OCO		FY 201	3 TOTAL
NO ITEM NOMENCLATURE	ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Spares and Repair Parts											
16 Spares And Repair Parts (CA0250)			19,458	3	8,700		7,864	1			7,864
SUB-ACTIVITY TOTAL			19,458	}	8,700		7,864	4			7,864
ACTIVITY TOTAL			19,458		8,700	ı	7,864	1		-	7,864

#### **DEPARTMENT OF THE ARMY**

# FY 2013 PROCUREMENT PROGRAM (WORKSETS INCLUDED) President's Budget 2013

**EXHIBIT P-1 DATE**: 4-Feb-2012 8:10

APPROPRIATION Missile Procureme	05 Support equipment and facilities	DOLLARS IN THOUSANDS										
LINE			FY	2011	FY	2012	FY	2013	FY 20	13 OCO	FY 201	3 TOTAL
NO ITEM NOMENCLATURE		ID	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
Support Equipment and	l Facilities											
17 Air Defense Targets (C93000)				3,592		3,674		3,864	1			3,864
18 Items Less Than \$5.0m (Missiles)	) (CL2000)			1,200		1,459		1,560	)			1,560
19 Production Base Support (CA010	00)			4,484		5,043		5,200	)			5,200
SUB-ACTIV	/ITY TOTAL			9,276		10,176		10,624	Ī		_	10,624
ACTIVITY TOTAL	-			9,276		10,176		10,624	ī		-	10,624
APPROPRIATION TOTAL				1,823,334		1,587,779		1,302,689	4	9, 653		1,352,342

#### NOMENCLATURE INDEX

SSN	LINE	PAGE	NOMENCLATURE
C93000	17	7	Air Defense Targets (C93000)
C64400	8	4	Guided MLRS Rocket (GMLRS) (C64400)
C71500	15	5	HELLFIRE Modifications (C71500)
C70000	4	4	Hellfire Sys Summary (C70000)
C02901	10	4	High Mobility Artillery Rocket System (HIMARS) (C02901)
C67501	14	5	HIMARS Modifications (C67501)
C61700	12	5	ITAS/TOW Mods (C61700)
CL2000	18	7	Items Less Than \$5.0m (Missiles) (CL2000)
CC0007	5	4	Javelin (AAWS-M) System Summary (CC0007)
C59300	6	4	Less: Advance Procurement (PY)
C67500	13	5	MLRS Mods (C67500)
C65405	9	4	MLRS Reduced Range Practice Rockets (RRPR) (C65405)
C53101	2	4	MSE Missile (C53101)
C50700	11	5	Patriot Mods (C50700)
C49100	1	4	Patriot System Summary (C49100)
CA0100	19	7	Production Base Support (CA0100)
CA0250	16	6	Spares And Repair Parts (CA0250)
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	10	4	High Mobility Artillery Rocket System (HIMARS) (C02901)
C49100	1	4	Patriot System Summary (C49100)
C50700	11	5	Patriot Mods (C50700)
C53101	2	4	MSE Missile (C53101)
C59300	6	4	TOW 2 System Summary (C59300)
C59300	6	4	Less: Advance Procurement (PY)
C59300	7	4	TOW 2 System Summary (C59300)
C61700	12	5	ITAS/TOW Mods (C61700)
C64400	8	4	Guided MLRS Rocket (GMLRS) (C64400)
C65405	9	4	MLRS Reduced Range Practice Rockets (RRPR) (C65405)
C67500	13	5	MLRS Mods (C67500)
C67501	14	5	HIMARS Modifications (C67501)
C70000	4	4	Hellfire Sys Summary (C70000)
C71500	15	5	HELLFIRE Modifications (C71500)
C81001	3	4	Surface-Launched AMRAAM System Summary: (C81001)
C93000	17	7	Air Defense Targets (C93000)
CA0100	19	7	Production Base Support (CA0100)
CA0250	16	6	Spares And Repair Parts (CA0250)
CC0007	5	4	Javelin (AAWS-M) System Summary (CC0007)
CL2000	18	7	Items Less Than \$5.0m (Missiles) (CL2000)

Army • President's Budget Submission FY 2013 • Procurement

## **Table of Contents**

Line Item Table of Contents (by Appropriation then Line Number) i
Line Item Table of Contents (Alphabetically by Line Item Title)
Exhibit P-40's 1

## Army • President's Budget Submission FY 2013 • Procurement

## **Line Item Table of Contents (by Appropriation then Line Number)**

### Appropriation 2032A: Missile Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
1	02	10	C49100	Patriot System Summary	1
2	02	10	C53101	MSE Missile	9
3	02	10	C81001	Surface-Launched AMRAAM System Summary:	12
4	02	20	C70000	Hellfire Sys Summary	14
5	02	30	CC0007	Javelin (AAWS-M) System Summary	21
6	02	30	C59300	TOW 2 System Summary	28 35
7	02	30	C59300	TOW 2 System Summary	28 35
8	02	30	C64400	Guided MLRS Rocket (GMLRS)	39
9	02	30	C65405	MLRS Reduced Range Practice Rockets (RRPR)	48
10	02	30	C02901	High Mobility Artillery Rocket System (HIMARS)	56

## Army • President's Budget Submission FY 2013 • Procurement

## Appropriation 2032A: Missile Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title Page
11	03	10	C50700	Patriot Mods
12	03	10	C61700	ITAS/TOW Mods 82
13	03	10	C67500	MLRS Mods 83
14	03	10	C67501	HIMARS Modifications
15	03	10	C71500	HELLFIRE Modifications

## Appropriation 2032A: Missile Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
16	04	10	CA0250	Spares And Repair Parts	116

Army • President's Budget Submission FY 2013 • Procurement

## Appropriation 2032A: Missile Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
17	05	10	C93000	Air Defense Targets	118
18	05	10	CL2000	Items Less Than \$5.0m (Missiles)	122
19	05	10	CA0100	Production Base Support	125

## Army • President's Budget Submission FY 2013 • Procurement

## Line Item Table of Contents (Alphabetically by Line Item Title)

Line Item Title	Line Item Number	Line #	ВА	BSA Page	je
Air Defense Targets	C93000	17	05	10 11	8
Guided MLRS Rocket (GMLRS)	C64400	8	02	30 39	39
HELLFIRE Modifications	C71500	15	03	10 11	5
HIMARS Modifications	C67501	14	03	10 10	)5
Hellfire Sys Summary	C70000	4	02	20 14	4
High Mobility Artillery Rocket System (HIMARS)	C02901	10	02	30 50	6
ITAS/TOW Mods	C61700	12	03	10 85	32
Items Less Than \$5.0m (Missiles)	CL2000	18	05	10 122	22
Javelin (AAWS-M) System Summary	CC0007	5	02	30 2	21
MLRS Mods	C67500	13	03	10 83	3
MLRS Reduced Range Practice Rockets (RRPR)	C65405	9	02	30 48	8
MSE Missile	C53101	2	02	10	9
Patriot Mods	C50700	11	03	10 6-	<b>j</b> 4
Patriot System Summary	C49100	1	02	10	1
Production Base Support	CA0100	19	05	10 12	25
Spares And Repair Parts	CA0250	16	04	10 110	6
Surface-Launched AMRAAM System Summary:	C81001	3	02	10 12	2

## **UNCLASSIFIED**

## Army • President's Budget Submission FY 2013 • Procurement

Line Item Title	Line Item Number	Line #	ВА	BSA Page	
TOW 2 System Summary	C59300	6	02	30 28 35	
TOW 2 System Summary	C59300	7	02	30 28 35	

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 10: Surface-To-

C49100 - Patriot System Summary

Air Missile System

ID Code (A=Service Ready, B=Not Service Ready) : A

Program Elements for Code B Items:

Other Related Program Elements: 0605456A, 0604865A, 0603869A, 0214400A, 0214401A, 0607865A

Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total	
Procurement Quantity (Each)	-	78	88	84	-	84	-	-	-	-	0	250	
Gross/Weapon System Cost (\$ in Millions)	13,310.397	628.422	662.231	646.590	-	646.590	-	-	-	-	0.000	15,247.640	
Less PY Advance Procurement (\$ in Millions)	123.343	-	-	-	-	-	-	-	-	-	0.000	123.343	
Net Procurement (P1) (\$ in Millions)	13,187.054	628.422	662.231	646.590	-	646.590	-	-	-	-	0.000	15,124.297	
Plus CY Advance Procurement (\$ in Millions)	123.343	-	-	-	-	-	-	-	-	-	0.000	123.343	
Total Obligation Authority (\$ in Millions)	13,310.397	628.422	662.231	646.590	-	646.590	-	-	-	-	0.000	15,247.640	
(The fo.	(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	178 406	6 953	6 732	6.800	_	6.800	_	_	_	_	0.000	198 891	

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	178.406	6.953	6.732	6.800	-	6.800	-	-	-	-	0.000	198.891
Flyaway Unit Cost (\$ in Thousands)	-	81.446	7.302	7.778	-	7.778	-	-	-	-	0.000	96.526
Gross/Weapon System Unit Cost (\$ in Thousands)	-	8,056.692	7,525.352	7,697.500	-	7,697.500	-	-	-	-	0.000	60.991
December (1 and												

#### Description:

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.

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	78	88	84	-	84
	Total Obligation Authority	628.422	662.231	646.590	-	646.590

	l otal Obligation A	utnor	rity		628.422				028.422 002.231			646.590					-	646.590		
Item Sche	dule		P	Prior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
C49200 - PATRIOT PAC-3	P5, P5A, P21	Α	-	-	-	8,056.692	78	628.422	7,525.352	88	662.231	7,697.500	84	646.590	-	-	-	7,697.500	84	646.590
Total Gross/Weapon System Cost					13,310.397			628.422			662.231			646.590			-			646.590

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

UNCLASSIFIED
Page 1 of 8

UNCLASSIFIED												
xhibit P-40, Budget Item Justification Sheet: PB 2013 Army  Date: February 2012												
Appropriation / Budget Activity / Budget Sub / 2032A: Missile Procurement, Army / BA 2: Othe Air Missile System	Activity: r Missiles / BSA 10 : Surface-To-	P-1 Line Item Nome C49100 - Patriot Sys										
ID Code (A=Service Ready, B=Not Service Ready) : A Program Elements for Code B Items:  Other Related Program Elements: 06 0603869A, 0214400A, 0214401A, 0607												
Justification: FY 2013 base procurement dollars in the amount \$646.590	million supports the procurement of 84 PA	C-3 missiles and 38 Enhand	ced Launcher Electronic Systems (ELES).									

LI C49100 - Patriot System Summary Army

UNCLASSIFIED Page 2 of 8

P-1 Line #1

Exhibit P-5, Cost	t Ar	nalysis:	PB 2013	Army											Date: Fe	ebruary 2	2012		
Appropriation / E 2032A / BA 2 / BS			ivity / Bu	ıdget Sı	ub Activ	ity:	<b>MDA</b> 148	P Code:		P-1 Line Item Nomenclature: C49100 - Patriot System Summary				, l	Item Nomenclature (Item Number, Item Name, DODIC): C49200 - PATRIOT PAC-3				
		Resou	urce Sur	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	B Base	FY 201	3 OCO	FY 2013	3 Total
Procurement Quantity	(Ea	ch)							-		78		88		84		-		84
Gross/Weapon Syster	n Co	st (\$ in Mi	illions)						-	(	628.422		662.231		646.590		-		646.590
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1)	(\$ ir	Millions)							-	(	628.422	(	662.231		646.590		-		646.590
Plus CY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		
Total Obligation Author	ority (	(\$ in Million	ns)						-	(	628.422	(	662.231		646.590		-		646.590
			(Th	e following	Resource S	ummary row	s are for i	nformational p	ourposes o	only. The corre	esponding b	oudget reques	sts are doc	umented els	ewhere.)				
Initial Spares (\$ in Mill	ions	)							-		6.953	·	6.732		6.800		-		6.800
Gross/Weapon Syster	n Un	nit Cost (\$	in Thousar	nds)					-	8,0	056.692	7,	525.352	7	7,697.500		-	7	7,697.500
		ı	Prior Years	 S		FY 2011			FY 2012	2	F	Y 2013 Bas	se	FY 2013		co	F	Y 2013 Tota	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost		(, )	( /	(, ,	1 (, )	( ,	(, )	(, ,	( /	(, ,	, ,	1 ( /	(, )	, ,	( /	(, )	(, ,	, , , ,	
Recurring Cost																			
† Missile Hardware - Recurring		-	-	-	3,149.000	78	245.61	1 3,434.000	8	302.200	3,846.000	84	323.100	-	-	0.000	3,846.000	84	323.100
Field Surveillance		-	-	-	-	-	18.26		-	29.999	-	-	30.000		-	0.000		-	30.000
PAC-3 Missile Support Center (P3MSC)		-	-	-	-	-	47.87	7 -	-	37.458	-	-	16.400	-	-	0.000	-	-	16.400
Obsolescence		-	-	-	-	-	24.20	-	-	31.989	-	-	20.000		-	0.000		-	20.000
Enhanced Launcher Electronic System		-	-	-	4,104.000	40	164.16	0 3,822.000	3	137.592	3,295.000	38	125.200	-	-	0.000	3,295.000	38	125.200
Limited User Testing		-	-	-	-	-	25.00	0 -	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Contractor Engineering		-	-	-	-	-	43.31	-	-	51.657	-	-	54.634	-	-	0.000	-	-	54.634
Government/Software Engineering		-	-	-	-	-	21.50	0 -	-	25.828	-	-	29.130	-	-	0.000	-	-	29.130
Sys Engrg/Proj Mgmt (SEPM)		-	-	-	-	-	14.99	8 -	-	18.449	-	-	19.511	-	-	0.000	-	-	19.511
Integrated Logistics Support		-	-	-	-	-	13.60	-	-	15.989	-	-	16.909	-	-	0.000	-	-	16.909
Depot Maint Plant Equipment (DMPE)		-	-	-	-	-	1.10	0 -	-	1.230	-	-	1.301	-	-	0.000	-	-	1.301
Fielding		-	-	-	-	-	8.80		-	9.840	-	-	10.405	+	-	0.000		-	10.405
Total Recurring Cost				0.000			628.42			662.231			646.590			0.000	-		646.590
Total Flyaway Cost	-			0.000			628.42	_		662.231			646.590			0.000			646.590
Gross Weapon System Cost				-			628.42	2		662.231			646.590	'		-			646.590

LI C49100 - Patriot System Summary Army

UNCLASSIFIED
Page 3 of 8

P-1 Line #1

Exhibit P-5, Cost Analysis: PB 2013 Army	Date: February 2012		
Appropriation / Budget Activity / Budget Sub Activity: 2032A / BA 2 / BSA 10	MDAP Code: 148	P-1 Line Item Nomenclature: C49100 - Patriot System Summary	Item Nomenclature (Item Number, Item Name, DODIC): C49200 - PATRIOT PAC-3

Remarks.						
Se	condary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	78	88	84	-	84
	Total Obligation Authority	628.422	662.231	646.590	-	646.590

UNCLASSIFIED
Page 4 of 8

Exhibit P-5A, Budget Procurement History and Planning: P	B 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2032A / BA 2 / BSA 10	C49100 - Patriot System Summary	C49200 - PATRIOT PAC-3

Cost Elements († indicates the presence of a P-21)	0 0 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†Missile Hardware - Recurring		2011	LMMFC / Dallas, TX	SS / FFP	AMCOM	Dec 2010	Aug 2012	78	3,149.000	N		Mar 2010
†Missile Hardware - Recurring		2012	LMMFC / Dallas, TX	SS / FFP	AMCOM	Dec 2011	Aug 2013	88	3,434.000	N		Mar 2011
†Missile Hardware - Recurring		2013	LMMFC / Dallas, TX	SS / FFP	AMCOM	Dec 2012	Aug 2014	84	3,846.000	N		Mar 2012

Remarks:

LMMFC - Lockheed Martin Missiles and Fire Control

SS - Sole Source

FFP - Firm Fixed Price

AMCOM - US Army Aviation and Missile Command

MDAP: 148

5

Exhibit P-21, Budget Production Schedule: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2032A / BA 2 / BSA 10 C49100 - Patriot System Summary C49200 - PATRIOT PAC-3 COST ELEMENTS Units in Each Fiscal Year 2012 Fiscal Year 2013 BAL Calendar Year 2012 Calendar Year 2013 ACCEP DUE PRIOR AS 0 0 D M s В С MFR PROC TO 1 OF 1 С 0 Ε Ρ U U U Ε С 0 Ε Ε Ρ U U U Ε Ε Α Α Α Α Α Α Α 0 FY SERVICE<sup>‡</sup> QTY ост ост Ref# т ٧ С Ν В R R Ν G Т С В R R Ν G Р Missile Hardware - Recurring ARMY 78 2011 78 0 20 20 24 12 2 1 2011 • FMS 224 0 224 \_ 12 24 24 1 2011 TOTAL 302 0 302 20 20 24 24 24 26 ARMY 88 20 48 1 2012 20 1 2012 ◆ FMS 154 0 154 154 1 2012 TOTAL 242 20 202 242 0 20 1 ARMY (1) 84 0 84 A -84 2013 1 40 0 40 40 2013 + FMS (2) 1 2013 TOTAL 124 0 124 124 0 Ν D J F M s 0 Ν D J M J s Α Α Р U С Ε U Ε С Ε Ε Ρ U U Ε 0 Α Ε Α Α U 0 Α Α Α U С N В R R Υ ٧ С Ν В R R N Р Ν G Т G

E	hibit	P-21	, Budge	t Pro	ducti	on S	chedu	ıle: P	B 20	13 Ar	my													Date	: Feb	ruary	2012				
			on / <b>Buo</b> 2 / BSA		Activi	ty / B	udge	Sub	Activ	vity:			L <b>ine I</b> 100 -				<b>ture:</b> Summ	nary								encla PATR			3		
			OST ELEM Units in E								F	iscal Y	ear 201	14									ı	Fiscal Y	ear 201	5					
						BAL								C	alendar	Year 2	014						Calendar Year 2015								
0 C 0	MFR Ref#	FY	SERVICE <sup>‡</sup>	PROC	ACCEP PRIOR 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	E A
Mi	ssile Ha	ardware	- Recurring	]																											
	1	2011	ARMY	78	78	0																									
	1	2011	◆ FMS	224	224	0																									
	1	2011	TOTAL	302	302	0																									
						- 1																									
	1	2012	ARMY	88	40	48	20	22	4	-	2																				
	1		ARMY ◆ FMS	88 154	40	48 154	20	22	14	- 20	20																				
		2012					20 - <b>20</b>				2 20 <b>22</b>																				
	1	2012 2012	◆ FMS	154	0	154 <b>202</b>	-	-	14	20		-	-	-	-	-	6	8	8	8	4	4	8	8	8	8	8	6			
	1	2012 2012 2013	• FMS	154 <b>242</b>	0 <b>40</b> 0	154 <b>202</b> 84	- 20	- 22	14	20 <b>20</b>	22	-	-	-	-	-	6	8	8	8 -	4	4	8	8	8		8	6			
	1 1	2012 2012 2013 2013	◆ FMS TOTAL ARMY <sup>(1)</sup>	154 <b>242</b> 84	0 40 0	154 <b>202</b> 84 40	- 20	- 22 -	14	20 <b>20</b> -	-							-	8 -		-			-		12	8				

7

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2032A / BA 2 / BSA 10	C49100 - Patriot System Summary	C49200 - PATRIOT PAC-3

		PRODUC	CTION RATES (Un	its/Year)			Р	ROCUREMENT L	EADTIME (Months	s)			
MF	R					Init	ial			Reo	rder		
Ref					ALT Prior			Total After	ALT Prior			Total After	
#	MFR Name - Location	MSR	1-8-5	MAX	to Oct 1 ALT After Oct 1 Mfg PLT Oct 1 to Oct 1 ALT After Oct 1 Mfg PLT Oct 1								
1	LMMFC - Dallas, TX	72	240	360	60 19 2 23 25 9 3 22 2								

#### Remarks:

FY11 128=UAE FMS Case (128 PAC-3 Missiles) FY11 96=Taiwan FMS Case (96 PAC-3 Missiles) FY12 154=Taiwan FMS Case (154 PAC-3 Missiles) FY13 40=Taiwan FMS Case (40 PAC-3 Missiles)

UNCLASSIFIED
Page 8 of 8

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

<sup>(1)</sup>BASE

<sup>&</sup>lt;sup>(2)</sup>BASE

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army		Date: February 2012
The character of the character of	P-1 Line Item Nomenclature: C53101 - MSE Missile	

Other Related Program Elements:

596.387

596 387

566.757

566.757

6.819.684

6.819.684

9.114.325

9.114.325

9

505.084

505.084

Program Elements for Code B Items: 0604865A, 0603869A.

12.850

12 850

74.953

74.953

0604869A, 0605456A **Prior** FY 2013 | FY 2013 | FY 2013 To OCO FY 2015 | FY 2016 | **Resource Summary Years** FY 2011 FY 2012 Base Total FY 2014 FY 2017 Complete Total Procurement Quantity (Each) 1,390 56 72 80 1,680 74.953 538.610 505.084 596.387 566.757 Gross/Weapon System Cost (\$ in Millions) 12.850 12.850 6.819.684 9.114.325 Less PY Advance Procurement (\$ in Millions)

Total Obligation Authority (\$ in Millions) (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) Flyaway Unit Cost (\$ in Thousands) Gross/Weapon System Unit Cost (\$ in Thousands) 9.618.036 7.015.056 7.454.838 6.911.671 4.906.247 5 425

12.850

12.850

538.610

538.610

#### **Description:**

Army

ID Code (A=Service Ready, B=Not Service Ready) :

Net Procurement (P1) (\$ in Millions)

Plus CY Advance Procurement (\$ in Millions)

The Missile Segment Enhancement (MSE) missile evolves from the PAC-3 (Patriot Advanced Capability 3) missile. The MSE upgrade takes the PAC-3 Cost Reduction Initiative (CRI) missile design and improves on it with a higher performance, dual pulse, eleven-inch diameter Solid Rocket Motor (SRM) design, improved Lethality Enhancer, thermally hardened front end for longer fly out, upgraded batteries, enlarged fixed fins, more responsive control surfaces, and upgraded guidance software. These improvements provide a more agile, lethal interceptor missile, which results in a substantial missile performance improvement while enhancing Insensitive Munitions (IM) compliance. A more IM compliant propellant for the SRM is being developed for the MSE program as well as a less sensitive Lethality Enhancer. A single canister design provides enhanced Warfighter and logistics flexibility, and facilitates Insensitive Munitions (IM) compliance for greater Warfighter safety. The MSE is being developed to fire from the Patriot system for the U.S. and is also the internationally accepted missile for MEADS.

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	-	74.953	12.850	-	12.850

			- 7					1												
Item Sch	edule		Prior Years			FY 2011			FY 2012			FY 2013 Base			FY	2013 O	co	FY	′ 2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
C53101 - MSE Missile	P5		-	-	-	-	-	-	-	-	74.953	-	-	12.850	-	-	-	-	-	12.850
Total Gross/Weapon System Cost					-			-			74.953			12.850			-			12.850

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P40.

UNCLASSIFIED LI C53101 - MSE Missile Page 1 of 3 P-1 Line #2

	O. (OE)	10011 122	
Exhibit P-40, Budget Item Justification Shee	et: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Su 2032A : Missile Procurement, Army / BA 2 : Ot Air Missile System	<b>b Activity:</b> her Missiles / BSA 10 : Surface-To-	P-1 Line Item Nomencla C53101 - MSE Missile	ature:
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B I 0604869A, 0605456A	tems: 0604865A, 0603869A,	Other Related Program Elements:
Justification: The FY 2013 Base procurement dollars in the amount of	\$12.850 million supports initial production faci	litization/training devices.	

LI C53101 - MSE Missile
Army

UNCLASSIFIED
Page 2 of 3
P-1 Line #2

Exhibit P-5, Cost	_			•												ebruary 2			
<b>Appropriation / E</b> 2032A / BA 2 / BS			vity / Bu	ıdget Sı	ıb Activ	ity:	<b>MDAP</b> 531	Code:	I .	<b>P-1 Line l</b> i C53101 - I			ure:		Name, L	<b>menclat</b> 2 <i>ODIC</i> ): - MSE M	•	n Numbe	r, Item
		Resou	ırce Sur	nmary				Prior Yea	ars	FY 20 <sup>-</sup>	11	FY 20	12	FY 2013	Base	FY 201	з осо	FY 201	3 Total
Procurement Quantity	(Ead	ch)							-		-		-		-		-		_
Gross/Weapon Syster	n Co	st (\$ in Mi	llions)						-		-		74.953		12.850		-		12.85
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1)	(\$ ir	n Millions)							-		-		74.953		12.850		-		12.85
Plus CY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		_
Total Obligation Author		• • • • • • • • • • • • • • • • • • • •							-		-		74.953		12.850		-		12.85
Ţ.		· ·		e following	Resource Si	ummary row	s are for in	formational p	urposes o	nly. The corre	sponding b	udget reque	sts are docu	ımented else	ewhere.)				
Initial Spares (\$ in Mill	lions)	)	,					•	-		-	<u> </u>	-		-		-		-
Gross/Weapon Syster	n Un	it Cost (\$ i	n Thousar	nds)					-		-		-		-		_		_
		F	Prior Years	 S		FY 2011			FY 2012	2	F	Y 2013 Ba	se	F	Y 2013 O	co	F	Y 2013 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost		, ,								, ,						1		_ `	
Recurring Cost																			
Initial Production Facilitization		-	-	-	-	-	0.000	-	-	74.513	-	-	12.397	-	-	0.000	-	-	12.39
Government/Software Engineering		-	-	-	-	-	0.000	-	-	0.440	-	-	0.453	-	-	0.000	-	-	0.45
Total Recurring Cost				0.000			0.000			74.953			12.850			0.000			12.8
Total Flyaway Cost				0.000			0.000			74.953			12.850			0.000			12.85
Gross Weapon System Cost				-			-			74.953			12.850			-			12.85
Remarks:																			
Seco	onda	ıry Distrib	ution			FY 20 <sup>-</sup>	11		FY 20	12		FY 2013 Base	3		FY 2013 OCO	3		FY 2013 Total	
Army Active	Quar									-			-	+		-			-
	Total	l Obligation A	ıthority							74.95	2		12.85	0		_			12.85

UNCLASSIFIED
Page 3 of 3
P-1 Line #2

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 10: Surface-To-

C81001 - Surface-Launched AMRAAM System Summary:

Air Missile System

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0604802A, 0605455A,

0214400A

	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	70.609	2.355	-	-	-	-	-	-	-	-	0.000	72.964
Less PY Advance Procurement (\$ in Millions)	40.349	-	-	-	-	-	-	-	-	-	0.000	40.349
Net Procurement (P1) (\$ in Millions)	30.260	2.355	-	-	-	-	-	-	-	-	0.000	32.615
Plus CY Advance Procurement (\$ in Millions)	40.349	-	-	-	-	-	-	-	-	-	0.000	40.349
Total Obligation Authority (\$ in Millions)	70.609	2.355	-	-	-	-	-	-	-	-	0.000	72.964
(The foll	owing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented el	sewhere.)			

(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented e	lsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

Surface Launched Advanced Medium Range Air-To-Air Missile (SLAMRAAM) is an air defense system included in the Army Integrated Air & Missile Defense (IAMD) architecture. SLAMRAAM consists of launcher platforms employing the proven AIM-120-C7 Advanced Medium Range Air-to-Air Missile (AMRAAM); 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 armored which allows it to operate in various combat situations to protect maneuver forces and strategic assets.

The Army's Air and Missile Defense (AMD) portfolio assessment of the cost-effectiveness of SLAMRAAM capabilities versus competing priorities for capability investments within the AMD portfolio led to an Army recommendation to conduct an orderly conclusion of the SLAMRAAM program.

Item Sched	dule		Р	rior Yeaı	's		FY 2011			FY 2012		FY	2013 Ba	ise	FY	′ 2013 O	co	FY	2013 To	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	<b>Qty</b> (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
C81002 - Surface-Launched AMRAAM Launcher	P5		-	-	-	-	-	2.355	-	-	-	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					70.609			2.355			-			-			-			-

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

#### Justification:

There is no funding in FY 2013.

UNCLASSIFIED

Exhibit P-5, Cos	t An	alysis:	PB 2013	Army										I	Date: Fe	bruary 2	012		
Appropriation / 2032A / BA 2 / BS			vity / Bu	ıdget Sı	ıb Activ	ity:	1		<b>Nomeno</b> ace-Laun		MRAAM	System S	Summar	y: //	Name, D	ODIC): - Surface	•	n Numbe	
		Resou	ırce Sun	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 2013	3 OCO	FY 201	3 Total
Procurement Quantity	y (Ead	ch)							-		-		-		-		-		-
Gross/Weapon Syste	m Co	st (\$ in Mi	llions)						-		2.355		-		-		-		-
Less PY Advance Pro	ocure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1	) (\$ ir	Millions)							-		2.355		-		-		-		_
Plus CY Advance Pro			Millions)						-		-		-		-		-		_
Total Obligation Author									-		2.355		-		-		-		_
-		-		e following	Resource Si	ummary row	s are for inf	formational	purposes on	ly. The corre	sponding b	udget reques	ts are docu	ımented else	ewhere.)				
Initial Spares (\$ in Mi	llions	)							-		-		-		-		-		-
Gross/Weapon Syste	m Un	it Cost (\$	in Thousan	ids)					-		-		-		-		-		-
		F	Prior Years	<b>S</b>		FY 2011			FY 2012		F	Y 2013 Bas	se	F	Y 2013 OC	0	F`	Y 2013 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost		(, )	( /	(, )	(, ,	( /	(, ,	( ,	( /	(, )	(, )	( /	(, ,	, ,	( ,	(, )	(, )	( /	(, )
Recurring Cost																			
TERMINATED SLAMRAAM		-	-	-	-	-	2.355	-	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Total Recurring Cost				0.000			2.355			0.000			0.000			0.000			0.00
Total Flyaway Cost				0.000			2.355	_		0.000			0.000			0.000			0.00
Gross Weapon System Cost				-			2.355			-			-			-			-
Remarks:																			
Sec	onda	ry Distrib	ution			FY 201	1		FY 201	2		FY 2013 Base	}		FY 2013 OCO	3		FY 2013 Total	
Army Active	Quar	ntity					-			-			-			-			-
	Total	Obligation A	uthority				2.3	55		-			-			-			-

UNCLASSIFIED

13

P-1 Line #3

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 20: Air-To-

C70000 - Hellfire Sys Summary

Surface Missile System

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0203802A, 0210109A

	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	2,106	907	-	161	161	-	419	460	460	0	4,513
Gross/Weapon System Cost (\$ in Millions)	5,341.279	222.160	108.966	1.401	29.100	30.501	1.336	87.506	89.257	90.998	0.000	5,972.003
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	5,341.279	222.160	108.966	1.401	29.100	30.501	1.336	87.506	89.257	90.998	0.000	5,972.003
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,341.279	222.160	108.966	1.401	29.100	30.501	1.336	87.506	89.257	90.998	0.000	5,972.003
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented el	sewhere.)		•	
Initial Spares (\$ in Millions)	5.700	-	-	-	-	-	-	-	-	-	0.000	5.700
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	105.489	120.139	-	180.745	189.447	-	208.845	194.037	197.822	0.000	1.323

#### **Description:**

The Laser HELLFIRE II 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 II 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. The AGM-114R HELLFIRE II missile will be the single variant that replaces all other HELLFIRE II missile configurations (K/N/M/P). HELLFIRE II Romeo procurement funding supports the entire HELLFIRE II system to include resolution of obsolescence, safety, reliability, weapon integration activities, test sets, engineering changes and production issues. This missile will be compatible on all current force UAS and rotary wing platforms.

Seco	ondary Distribu	tion		FY 2011		FY 2012	ı	FY 2013 Base	FY 2013 OCO		FY 2013 Total
Army Active	Quantity			2,106		907		-		161	161
	Total Obligation Authority			222.160		108.966		1.401	29.100		30.501
Ham Cala	a duda	D.:	V	EV 2044		EV 2042		EV 2012 Dans	EV 2042 OCO		EV 2042 Tetal

	Total Obligation A	lutiloi	ıty				222.100			100.9	00			1.401			29.100			30.301
Item Sche	dule		Р	rior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	o	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
C70100 - LASER HELLFIRE MSL (BASIC/IHW/HFII)	P5, P5A, P21		-	-	-	105.489	2,106	222.160	120.139	907	108.966	-	-	1.401	180.745	161	29.100	189.447	161	30.501
Total Gross/Weapon System Cost					5,341.279			222.160			108.966			1.401			29.100			30.501

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

Justification:

Exhibit P-40, Budget Item Justification Sh	eet: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget S 2032A : Missile Procurement, Army / BA 2 : C Surface Missile System	ub Activity:	P-1 Line Item No C70000 - Hellfire	
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code E		Other Related Program Elements: 0203802A, 0210109A
FY2013 Base procurement dollars in the amount of \$1 FY2013 OCO procurement dollars in the amount of \$2	.401 million provides government program ma 9.100 million procures 161 Hellfire II AGM-114	nagement for HELLFIRE R missiles. Procurement	Il missiles. of missiles are to replace missiles expended in combat operations.
The Army intends to convert any price advantage crea	ted through contract negotiations, other servic	e procurement, and/or for	eign military sales to increase the Army procurement of Hellfire missiles.

LI C70000 - Hellfire Sys Summary Army

Exhibit P-5, Cost	Ar	alysis:	PB 2013	Army										I	Date: Fe	bruary 2	012		
<b>Appropriation / E</b> 2032A / BA 2 / BS			vity / Bu	ıdget Sı	ub Activ	ity:	1	<b>ne Item No</b> 0 - Hellfire							Name, <i>E</i> C70100	ODIC):	HELLF	n Numbe	
		Resou	ırce Sun	nmary				Prior Year	s	FY 20	l1	FY 20	12	FY 2013	Base	FY 2013	з осо	FY 2013	3 Tota
Procurement Quantity	(Ea	ch)							-		2,106		907		-		161		16
Gross/Weapon Syster	`	,	llions)						_	2	22.160		108.966		1.401		29.100		30.50
Less PY Advance Pro									_		_		_		_				
Net Procurement (P1)		· · · · · · · · · · · · · · · · · · ·	- IviiiiiOrio)						_		22.160		108.966		1.401		29.100		30.50
Plus CY Advance Pro			Millions)						_						01				-
Total Obligation Author									-		22.160		108.966		1.401		29.100		30.50
Total Obligation / tatile		Ψ ινοι		e followina	Resource S	ummary rows	s are for int	formational purp	poses only					mented else			20.100		
Initial Spares (\$ in Mill	ions	)	( , , ,	o ronowing	7.0004700	anninary rowe		omanoma par	-	, , , , , , , , , , , , , , , , , , , ,	-	saagot roquot	-	montou oro	-		_		
Gross/Weapon Syster			in Thousan	de)					_	1	05.489		120.139		_		180.745		189.44
- Cross/Weapon Cyster			Prior Years			FY 2011		F	Y 2012			Y 2013 Bas		F	Y 2013 O	20		Y 2013 Tota	
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost		Total Cost	Unit Cost		Total Cost	Unit Cost Q	Quantity (Each)	Total Cost	Unit Cos		Total Cost		Quantity (Each)	Total Cost		Quantity (Each)	Total Cost
Flyaway Cost		(\$ K)	(Lacii)	(\$ W )	(ΦΚ)	(Lacii)	(\$ 101 )	(\$ K)	(Lacii)	(\$ 101 )	(Φ ΙΛ )	(Lacii)	(\$ W )	(\$1.7)	(Lacii)	(\$ 101 )	(\$ K)	(Lacii)	(Φ IVI )
Recurring Cost																			
† All-up Rounds		-	-	-	83.595	2,106	176.052	94.407	907	85.627	-	-	0.000	100.547	161	16.188	100.547	161	16.1
Engineering Services		-	-	-	-	-	3.492	-	-	3.660	-	-	0.000	-	-	1.474	-	-	1.4
Fielding		-	-	-	-	-	3.078		-	1.445	-	-	0.000	-	-	0.256	-	-	0.2
Acceptance Testing		-	-	-	-	-	0.575		-	0.255	-	-	0.000		-	0.045	-	-	0.0
Project Mgt Admin Production		-	-	-	-	-	10.151 28.812	-	-	6.701 11.278	-	-	1.401 0.000	-	-	1.994 9.143	-	-	9.1
Engineering Support				0.000			000 100			400.000			4 404			00.400			20.5
Total Recurring Cost  Total Flyaway Cost				0.000			222.160 222.160			108.966 108.966			1.401 1.401			29.100 29.100			30.5
Gross Weapon System Cost				-			222.160			108.966			1.401			29.100			30.5
Remarks:			<u>.                                    </u>													ı	<u>I</u>		
	onda	ry Distrib	ution			FY 201	1		FY 2012	2		FY 2013 Base	3		FY 2013	3		FY 2013 Total	
3000	Quai					231	2,1		2012	90	7			+		161			10
Army Active							-, .	1					1.40			29.100			•

LI C70000 - Hellfire Sys Summary Army

UNCLASSIFIED
Page 3 of 7

P-1 Line #4

Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / BA 2 / BSA 20

P-1 Line Item Nomenclature:

C70000 - Hellfire Sys Summary

(BASIC/IHW/HFII)

Cost Elements († indicates the presence of a P-21)	0 C 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†All-up Rounds		2011	HELLFIRE Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	Jul 2011	May 2013	2,106	83.595	N		Mar 2011
†All-up Rounds		2012	HELLFIRE Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	May 2012	May 2014	907	94.407	N		Mar 2011
†All-up Rounds	1	2013	HELLFIRE Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	May 2013	May 2015	161	100.547	N		Mar 2011

#### Remarks:

Firm Fixed Price (FFP)

The production unit cost is based on all services' base and OCO funding requirements known at this time. Quantities include United States Air Force procurement of tactical missiles, the United States Navy procurement of tactical missiles, and the United States Army procurement of Hellfire II AGM-114R missiles.

Exhibit P-21, Budget Production Schedule: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2032A / BA 2 / BSA 20 C70000 - Hellfire Sys Summary C70100 - LASER HELLFIRE MSL (BASIC/IHW/HFII) COST ELEMENTS **Units in Each** Fiscal Year 2013 Fiscal Year 2014 BAL Calendar Year 2013 Calendar Year 2014 ACCEP DUE 0 PRIOR AS 0 Ν M 0 M В D s С PROC TO 1 Ρ U Ε С Ε Ρ U MFR OF 1 С 0 Ε Α Ε Α Α U U 0 Α Ε Α Α U U Ε Α 0 FΥ SERVICE<sup>‡</sup> QTY OCT OCT Т С В R R Ν G Т С В R Ν G Р Ref# All-up Rounds 2011 **ARMY** 2106 0 2106 \_ 216 201 196 191 186 181 170 165 160 155 150 135 \_ 1 2011 NAVY 1108 0 1108 132 117 112 107 102 97 87 73 68 52 78 1 2011 ◆ AF 927 0 927 117 102 97 87 82 72 67 62 58 53 38 1 2011 TOTAL 4141 0 4141 465 420 405 390 375 360 329 315 300 286 271 225

-

\_

J

U

Ν

-

-

U

U

G

\_

0

С

s

Ε

\_

-

N

0

D

Ε

С

1

1

1

1

**√** 1

**√** 1

**√** 1

# 1

2012

2012

2012

2012

2013

2013

2013

ARMY

• AF

TOTAL

ARMY (1)

NAVY

• AF (3)

2013 TOTAL

NAVY

907

266

562

1735

161

1250

785

2196

907

161

1250

\_

-

0

С

0

D

Ε

С

J

Α

Ν

-

-

-

F

Ε

В

\_

-

-

М

Α

R

\_

Α

Ρ

R

-

М

Α

0

0 266

0 562

0 1735

0

0 785

0 2196

528

154

327

1009

161

1250

785

2196

75

22

47

144

Ε

Ρ

76

23

47

146

М

Α

-

-

-

M

Α

Ε

В

Α

\_

-

Α

Ρ

R

76

22

47

145

U

Ν

76

23

47

146

J

U

76

22

47

145

Α

U

G

														0		991F															
E	khibit	P-21	, Budge	t Pro	ducti	on So	chedu	ıle: P	B 201	13 Arı	my													Date	: Feb	ruary	2012	2			
			on / Bud 2 / BSA 2		Activit	ty / B	udge	t Sub	Activ	vity:			-	<b>tem N</b> Hellfir	-		-							C701	-	LASI			RE M	SL	
		С	OST ELEM Units in Ea								F	iscal Ye	ear 201	5									F	iscal Ye	ear 201	6					
						BAL								Cal	endar `	Year 20	15								Calen	dar Ye	ar 2016				
0 0	MFR Ref#	FY	SERVICE <sup>‡</sup>	PROC			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	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J	J	A U G	S E P	B A L
All	I-up Rou		I															I										1		I	
	1	2011	ARMY	2106	2106	0																									
	1	2011	• NAVY	1108	1108	0																									
	1	2011	◆ AF	927	927	0																									
	1	2011	TOTAL	4141	4141	0																									
	1	2012	ARMY	907	379	528	75	75	76	76	75	76	75																		
	1	2012	NAVY	266	112	154	22	22	22	22	22	22	22																		
	1	2012		562	235	327	46	47	46	47	47	47	47																		
	1	2012	TOTAL	1735	726	1009	143	144	144	145	144	145	144													1					
✓	1	2013	ARMY (1)	161	0	161	-	-	-	-	-	-	-	15	15	14	13	13	13	13	13	13	13	13	13						
✓	1	2013	◆ NAVY (2)	1250	0	1250	-	-	-	-	-	-	-	105	105	105	105	105	105	104	104	105	106	106	95						
✓	1	2013	◆ AF <sup>(3)</sup>	785	0	785			-	-	-	-	-	65	65	65	65	65	65	63	63	65	68	68	68						
#	1	2013	TOTAL	2196	0	2196	-	-	-	-	-	-	-	185	185	184	183	183	183	180	180	183	187	187	176						
					, ,		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	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J	J U L	A U G	S E P	

UNCLASSIFIED
Page 6 of 7

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
77 3 3 3 3 3 3 3	C70000 - Hellfire Sys Summary	Item Nomenclature: C70100 - LASER HELLFIRE MSL (BASIC/IHW/HFII)

		PRODUC	CTION RATES (Un	its/Year)			P	ROCUREMENT L	EADTIME (Months	s)		
MFR						Init	ial			Reo	rder	
Ref	MFR Name - Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	HELLFIRE Sys Limited Liability - Orlando	100	340	600	6	3	24	27	5	3	24	27

#### Remarks:

LI C70000 - Hellfire Sys Summary Army

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

<sup>(1)</sup>BASE

<sup>&</sup>lt;sup>(2)</sup>BASE

<sup>(3)</sup>BASE

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 30: Anti-Tank/

CC0007 - Javelin (AAWS-M) System Summary

Assault Missile Svs

Date: February 2012

ID Code (A=Service Ready, B=Not Service Ready) :		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	nents: 06046	11A	
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	715	710	400	-	400	449	597	568	575	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	4,117.597	163.009	160.767	81.121	-	81.121	90.877	115.812	113.214	116.285	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-	-	-	-	-	0.000	100.622
Net Procurement (P1) (\$ in Millions)	4,016.975	163.009	160.767	81.121	-	81.121	90.877	115.812	113.214	116.285	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-	-	-	-	-	0.000	100.622
Total Obligation Authority (\$ in Millions)	4,117.597	163.009	160.767	81.121	-	81.121	90.877	115.812	113.214	116.285	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	22.569	-	-	-	-	-	-	-	-	-	0.000	22.569
Flyaway Unit Cost (\$ in Thousands)	0.151	0.229	0.226	0.203	-	0.203	0.202	0.194	0.199	0.202	0.000	1.606
Gross/Weapon System Unit Cost (\$ in Thousands)	-	227.985	226.432	202.803	-	202.803	202.399	193.990	199.320	202.235	Continuing	Continuing

### **Description:**

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 range of military 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 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

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	715	710	400	-	400
	Total Obligation Authority	163.009	160.767	81.121	-	81.121

UNCLASSIFIED Page 1 of 7

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 30: Anti-Tank/

CC0007 - Javelin (AAWS-M) System Summary

Assault Missile Sys

ID Code (A=Service Ready	, B=Not Service Read	dy):				Program	Element	s for Cod	e B Items	s:			Othe	r Relate	d Prograi	n Eleme	nts: 0604	611A		
Item Sche	dule		Р	rior Year	'S		FY 2011			FY 2012		FY	2013 Ba	se	F۱	2013 O	co	FY	<b>2013 To</b>	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost												
H06102 - JAVELIN (AAWS-M)	P5, P5A, P21		-	-	-	227.985	715	163.009	226.432	710	160.767	202.803	400	81.121	-	-	-	202.803	400	81.121
Total Gross/Weapon System Cost					4,117.597			163.009			160.767			81.121			-			81.121

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

#### Justification:

FY 13 Base procurement dollars in the amount of \$81.121 million supports the procurement of 400 Rounds.

Estimated unit prices are based on combined U.S. Army, other services and FMS procurements of at least 1,000 missiles per year.

The P-40 Breakdown Quantity and Net Procurement lines reflect Javelin Missile Rounds only.

UNCLASSIFIED
Page 2 of 7

Exhibit P-5, Cos Appropriation /   2032A / BA 2 / BS	Bud	get Acti			ub Activ	ity:			<b>Nomenc</b> Ilin (AAW		/stem S	ummary			Item No Name, L		ure (Iter	n Numbei /S-M)	r, Item
		Resou	ırce Sun	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 201	3 Base	FY 2013	3 OCO	FY 2013	3 Total
Procurement Quantity	/ (Ea								-		715		710		400		_		400
Gross/Weapon Syste	` `		llions)						_	1	163.009	1	160.767		81.121		_		81.12
Less PY Advance Pro		•							_		-		_		-		_		
Net Procurement (P1		•							_		163.009	1	160.767		81.121				81.12
Plus CY Advance Pro			Millione)						_		100.000	<u>'</u>	100.707		01.121				
Total Obligation Author		• • • • • • • • • • • • • • • • • • • •							-		163.009		60.767		81.121				81.12
Total Obligation Auth	Office	φ III IVIIIIVI	-						-										01.12
			(Th	e following	Resource S	ummary rows	are for int	tormational p		y. The corre	sponding I	budget reques		umented els					
Initial Spares (\$ in Mi									-		-		-		-		-		
Gross/Weapon Syste	m Ur	it Cost (\$ i	n Thousan	ids)					-	2	227.985	2	226.432	1	202.803		-		202.80
		F	Prior Years	3		FY 2011			FY 2012		F	Y 2013 Bas	e	F	Y 2013 O	co	F	Y 2013 Tota	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cos	t Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost			'		'			1											
Recurring Cost																			
† All Up Round		-	-	-	141.319	715	101.043	145.325	710	103.181	147.53		59.014		-	0.000	147.535		59.01
Engineering Services		-	-	-	-	-	14.935		-	15.269	-	-	8.044		-	0.000		-	8.04
Engineering Change Orders		-	-	-	-	-	0.101	-	-	0.102	-	-	0.059	-	-	0.000	-	-	0.05
Acceptance Testing		-	-	-	-	-	0.777	-	-	0.918	-	-	0.803	-	-	0.000	-	-	0.80
Fielding		-	-	-	-	-	0.016	-	-	0.017	-	-	0.009	-	-	0.000	-	-	0.00
Project Management		-	-	-	-	-	9.385		-	10.284	-	-	7.881		-	0.000		-	7.88
Production Engineering		-	-	-	-	-	6.256	-	-	6.855	-	-	5.254	-	-	0.000	-	-	5.25
Publications/ Technical Data		-	-	-	-	-	0.055	-	-	0.065	-	-	0.057	-	-	0.000	-	-	0.05
CLU Retrofits		-	-	-	78.863	386	30.441	68.398	352	24.076	-	-	0.000	-	-	-	-	-	0.00
Total Recurring Cost				0.000			163.009	-		160.767			81.121			0.000			81.12
Total Flyaway Cost				0.000			163.009			160.767			81.121			0.000			81.12
Gross Weapon System Cost				-			163.009			160.767			81.121			-			81.12
Remarks:												FY 2013			FY 201	3		FY 2013	
Sec	onda	ry Distrib	ution			FY 201	1		FY 201	2		Base			осо			Total	
Army Active	Qua	•						715		71	_		40	_		-			40
	Tota	Obligation Au	ıthority		1		163.0	nna I		160.76	37		81.12	01		_	1		81.12

LI CC0007 - Javelin (AAWS-M) System Summary

Army

**UNCLASSIFIED** Page 3 of 7

P-1 Line #5

23

Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / BA 2 / BSA 30

P-1 Line Item Nomenclature:

CC0007 - Javelin (AAWS-M) System Summary

Date: February 2012

Item Nomenclature:
H06102 - JAVELIN (AAWS-M)

					•						<u> </u>	
Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†All Up Round		2011	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Jun 2011	Jun 2013	715	141.319	N		
†All Up Round		2012	JJV All Up Round / Tucson AZ Orlando FL	SS/FFP	AMCOM, Redstone Arsenal, AL	Nov 2011	Nov 2013	710	145.325	N		
†All Up Round		2013	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Dec 2012	Dec 2014	400	147.535	N		

#### Remarks:

Javelin Joint Venture (JJV) includes Raytheon in Tucson, AZ and Lockheed Martin in Orlando, FL.

Sole Source (SS)

Firm Fixed Price (FFP)

Aviation and Missile Command (AMCOM)

Unit prices are affected by combining Army procurement quantities with other U.S. services and foreign military sales quantities.

Exhibit P-21, Budget Production Schedule: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2032A / BA 2 / BSA 30 CC0007 - Javelin (AAWS-M) System Summary H06102 - JAVELIN (AAWS-M) COST ELEMENTS Units in Each Fiscal Year 2013 Fiscal Year 2014 BAL Calendar Year 2013 Calendar Year 2014 ACCEP DUE PRIOR AS 0 0 Ν D M s В Α С MFR PROC TO 1 OF 1 Ε Ρ U U U Ε С Ε Ε Ρ U U U Ε С 0 Ε Α 0 Α Α Α Α Α Α 0 FY SERVICE<sup>‡</sup> QTY ост ост Ref# Т ٧ С Ν В R R Ν G Ρ Т ٧ С В R R Ν G Р All Up Round 2011 ARMY 715 0 715 110 110 110 110 110 110 55 1 2011 + FMS 516 0 516 25 1 2011 TOTAL 1231 0 1231 110 110 110 110 110 110 80 50 710 50 59 1 2012 **ARMY** 710 50 50 41 40 40 110 110 110 1 2012 • MC 19 0 19 19 1 2012 → FMS 372 0 372 321 ----51 1 2012 TOTAL 1101 0 1101 50 50 50 50 41 40 59 110 110 321 110 110 -\_ ---1 2013 400 0 400 Α -400 ARMY (1) • MC (2) 172 172 1 2013 172 0 ◆ FMS (3) 1 2013 428 0 428 428 2013 TOTAL 1000 1000 1000 0 F D М J S 0 Ν J М J Α Р С 0 Ε Ε U U U Ε С Ε Ε Ρ U U U Ε Α Α Α 0 Α Α Α Т С Ν В R R Ν G С В R R Ν G Р

Ex															CLA																
	hibit	P-21	, Budge	et Pro	ducti	on S	ched	ule: [	PB 20	13 Ar	my					_		_				_		Date	: Feb	ruary	201	2			
			on / Bud 2 / BSA :		Activi	ty / B	udge	t Sul	Acti	vity:			_ine I 007 -					ystem	n Sum	ımary	,				<b>Nom</b> 102 -			: (AAW	S-M)		
		С	OST ELEM Units in E								Fi	iscal Ye	ear 201	5									F	iscal Y	ear 201	16					
						BAL								Ca	alendar	Year 2	015								Calen	dar Yea	ar 2016				
	MFR Ref#	FY	SERVICE <sup>‡</sup>	PROC QTY	ACCEP PRIOR TO 1 OCT		0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J	J L	A U G	S E P	E A
All	Up Ro																														
	1	2011	ARMY	715	715	0																									
1 2011 + FMS 516 516 0  1 2011 TOTAL 1231 1231 0  1 2012 ARMY 710 710 0																															
1         2011         TOTAL         1231         1231         0           1         2012         ARMY         710         710         0																															
1 2012 • MC 19 19 0																															
_	1		◆ FMS	372		321																									
_	1		TOTAL	1101		321								1																	
	1	2013	ARMY (1)	400	0	400	-	-	9	110	110	110	61																		
	1	2013	◆ MC <sup>(2)</sup>	172	0	172	-	-	-	-	-	-	49																		
	1	2013	◆ FMS <sup>(3)</sup>	428	0	428	-	-	-	-	-	-	-																		
	1	2013	TOTAL	1000	0	1000	-	-	9	110	110	110	110																		
			I.				0	N	D	J A	F	М	Α	M A Y	J	J	Α	S	0	N	D	J	F	М	_					S	$\overline{}$

UNCLASSIFIED
Page 6 of 7

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2032A / BA 2 / BSA 30	CC0007 - Javelin (AAWS-M) System Summary	H06102 - JAVELIN (AAWS-M)

		PRODUC	CTION RATES (Un	its/Year)			F	ROCUREMENT L	EADTIME (Months	s)		
MF	R					Ini	tial			Reo	rder	
Re					ALT Prior			Total After	ALT Prior			Total After
#	MFR Name - Location	MSR	1-8-5	MAX	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1
1	JJV All Up Round - Tucson AZ Orlando FL	75	540	670	11	3	22	25	1	1	22	23

#### Remarks:

Estimated unit prices are based on combined U.S. Army, other services and FMS procurements of at least 1,000 missiles per year.

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

<sup>(1)</sup>BASE

<sup>(2)</sup>BASE

(3)BASE

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

ONOLAGON IL

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 30: Anti-Tank/

C59300 - TOW 2 System Summary

**Date:** February 2012

Assault Missile Sys

ID Code (A=Service Ready, B=Not Service Ready):		Progran	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	1,200	802	1,403	-	1,403	1,447	1,483	1,750	765	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	2,423.093	136.960	58.676	84.598	-	84.598	87.347	89.159	111.840	91.248	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	97.471	-	-	19.886	-	19.886	19.931	19.965	19.984	-	Continuing	Continuing
Net Procurement (P1) (\$ in Millions)	2,325.622	136.960	58.676	64.712	-	64.712	67.416	69.194	91.856	91.248	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	97.471	-	19.886	19.931	-	19.931	19.965	19.984	-	-	Continuing	Continuing
Total Obligation Authority (\$ in Millions)	2,423.093	136.960	78.562	84.643	-	84.643	87.381	89.178	91.856	91.248	Continuing	Continuing
(The fol	llowing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			

(The follow	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budge	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	114.133	73.162	60.298	-	60.298	60.364	60.121	63.909	119.278	Continuing	Continuing

### **Description:**

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) 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 precision 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), and the M220A2 TOW 2 launcher. The USMC employs the TOW missile from its ITAS launchers, ATGM and AH-1W Cobra helicopters. The TOW missile provides the warfighter with a highly lethal, cost effective, interoperable, multi-purpose weapon.

Item Sche	dule		P	rior Year	s		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)									
C59403 - TOW Family of Missiles	P5, P5A, P21		-	-	-	114.133	1,200	136.960	73.162	802	58.676	60.298	1,403	84.598	-	-	-	60.298	1,403	84.598
Total Gross/Weapon System Cost					2,423.093			136.960			58.676			84.598			-			84.598

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

#### Justification

FY13 Base procurement dollars in the amount of \$84.643 million funds the second year of a five-year (FY12-16) multi-year contract. FY13 includes \$19.931 million Advance Procurement for Long Lead Items. The five-year contract procures 6885 TOW multi-variant missiles. This funding profile supports the Total Army Munitions Requirement (TAMR) and maintains the supplier industrial base.

**UNCLASSIFIED** 

	ONOL	AUGII ILD	
Exhibit P-40, Budget Item Justification She	et: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Su 2032A : Missile Procurement, Army / BA 2 : O Assault Missile Sys	ub Activity: ther Missiles / BSA 30 : Anti-Tank/	<b>P-1 Line Item N</b> C59300 - TOW	Nomenclature: 2 System Summary
D Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B	Items:	Other Related Program Elements:
NOTES:	,		·
The Army intends to convert any price advantage creat	ed tillough contract negotiations, other service	procurement, and/or it	oreign military sales into a buy-to-budget procurement strategy.

LI C59300 - TOW 2 System Summary Army

Exhibit P-5, Cos	t Ar	alysis:	PB 2013	Army											Date: Fo	ebruary 2	012		
<b>Appropriation /</b> 2032A / BA 2 / B			vity / Bu	dget Sı	ıb Activ	ity:			Nomenc / 2 Syste		nary				Name, L	menclat DODIC): - TOW F	•		r, Item
		Resou	ırce Sun	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	3 Base	FY 2013	3 ОСО	FY 201	3 Tota
Procurement Quantity	y (Ea	ch)							-		1,200		802		1,403		-		1,40
Gross/Weapon Syste	m Co	st (\$ in Mi	llions)						-	1	36.960		58.676		84.598		-		84.59
Less PY Advance Pro	ocure	ment (\$ in	Millions)						_		-		_		19.886		_		19.88
Net Procurement (P1									_	1	36.960		58.676		64.712		_		64.71
Plus CY Advance Pro	, ( .		Millions)						_		-		19.886		19.931		_		19.93
Total Obligation Auth		• • •							_		36.960		78.562		84.643		_		84.64
Total Obligation Auth	Officy	iOiiiiivi iii ψ		- fallannia a	D				-								_		04.04
In:tipl Consum (ft in Mi	II:	`	(Ine	e rollowing	Resource S	ummary rows	s are for inf	ormational p		y. The corre	sponaing b	oudget reques		umentea eis			1		
Initial Spares (\$ in Mi		<u> </u>							-		-		-		-		-		-
Gross/Weapon Syste	m Ur	•			1			1	-	1	14.133		73.162	1	60.298		-		60.29
		F	Prior Years			FY 2011			FY 2012		F	Y 2013 Bas		F	Y 2013 O		F'	Y 2013 Tot	
Cost Elements († indicates the presence of a P-5A)	ID	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost		, ,				. ,		, ,	. , ,									. , , ,	
Recurring Cost																			
Non-Recurring		-	-	-	-	-	6.632		-	6.897	-	-	7.005		-	0.000	-	-	7.00
† Missile Contract		-	-	-	93.652	1,200	112.382	44.852	802	35.971	46.471		65.199	_	-	0.000	46.471	1,403	65.19
Engineering Services	-	-	-	-	-	-	11.384	-	-	8.989	-	-	4.600		-	0.000	-	-	4.60
Acceptance Testing	-	-	-	-	-	-	0.387	-	-	0.274	-	-	0.479	+	-	0.000	-	-	0.47
Project Mgt Admin  Gross P-1 End Cost	+	-	-	-	-	-	6.175	-	-	6.545 0.000	-	-	7.315		-	0.000	-	-	7.3
Total Recurring Cost	+	-	-	0.000	-	-	0.000 136.960		-	58.676	-	-	84.598	-	-	0.000	-	-	84.5
Total Flyaway Cost	+			0.000			136.960			58.676			84.598	-		0.000			84.5
Gross Weapon System Cost				-			136.960			58.676			84.598	+		-			84.59
Remarks:									,										
	ond	ary Distrib	ution			FY 201	1		FY 201	2		FY 2013 Base			FY 201 OCO	3		FY 2013 Total	
Sec	onac						12	:00		80	)2		1,40	)3		-			1,40
Sec Army Active	Qua	ntity					.,-												

UNCLASSIFIED
Page 3 of 7

Exhibit P-5A, Budget Procurement History and Planning: PB 2013 ArmyDate: February 2012Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:<br/>C59300 - TOW 2 System SummaryItem Nomenclature:<br/>C59403 - TOW Family of Missiles

Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†Missile Contract		2011	Raytheon / Tucson, AZ	C/FFP	AMCOM, Redstone Arsenal, AL	Apr 2011	Sep 2013	1,200	93.652	N		
†Missile Contract		2012	Raytheon / Tucson, AZ	C/FFP	AMCOM, Redstone Arsenal, AL	May 2012	Mar 2014	802	44.852	N		
†Missile Contract		2013	Raytheon / Tucson, AZ	C/FFP	AMCOM, Redstone Arsenal, AL	Dec 2012	Dec 2014	1,403	46.471	N		

#### Remarks:

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

AMCOM Aviation Missile Command

FFP Firm Fixed Price MY Multi-Year

OCO Overseas Contingency Operations

Exhibit P-21, Budget Production Schedule: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2032A / BA 2 / BSA 30 C59403 - TOW Family of Missiles C59300 - TOW 2 System Summary COST ELEMENTS Units in Each Fiscal Year 2013 Fiscal Year 2014 Calendar Year 2014 BAL Calendar Year 2013 ACCEP DUE PRIOR AS 0 0 D M s 0 В C MFR O Ref# PROC TO 1 OF 1 С 0 Ε Ρ U U U Ε С Ε Ε Ρ U U U Ε Ε Α 0 Α Α Α Α Α Α FY SERVICE<sup>‡</sup> QTY ост ост т ٧ С Ν В R R Ν G Т С В R R Ν G Ρ Missile Contract 1200 200 1200 200 200 200 200 200 ARMY (1) 1 2012 ARMY 802 0 802 175 175 175 175 102 1 2012 • MC 1214 0 1214 35 35 35 35 108 -\_ --1 2012 TOTAL 2016 0 2016 210 210 210 210 210 2013 1403 1403 Α -1403 ARMY (2) 1 • MC (3) 815 0 815 815 2013 -2013 TOTAL 0 2218 1 2218 2218 -0 Ν D J F M Α M J J s 0 Ν D J F M Α M J J Α s С 0 Ε Α Ε Α Р Α U U U Ε С 0 Ε Ε Р Α U U U Ε Α Α С N В R R С R Ν G

Exhibit	t P-21	, Budge	t Pro	ducti	on S	ched	ule: F	PB 20	13 Arı	my													Date	: Feb	ruary	2012				
		on / Bud 2 / BSA :		Activit	ty / B	udge	t Suk	Acti	vity:		<b>P-1 L</b> C593					<b>ure:</b> Summ	nary									ature: Fami		Missil	es	
	С	OST ELEM Units in Ea								Fi	scal Ye	ar 201	5									ı	iscal Y	ear 201	16					
					BAL								Ca	endar \	ear 20	15								Calen	dar Yea	r 2016				
O MFR O Ref#	FY	SERVICE <sup>‡</sup>	PROC	ACCEP PRIOR TO 1 OCT	AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	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	A U G	S E P	B A L
Missile C	ontract	'										,	'	· ·			·	'												
1	2011	ARMY (1)	1200	1200	0																									
1	2012	ARMY	802	802	0																									
1	2012	• MC	1214	668	546																									
1	2012	TOTAL	2016	1470	546																									
1	2013	ARMY (2)	1403	0	1403	-	-	74	122	122	122	122	122	122	122	122	122	122	109											
1	2013	• MC (3)	815	0	815	-	-	-	74	74	74	74	74	74	74	74	74	74	75											
1	2013	TOTAL	2218	0	2218	-	-	74	196	196	196	196	196	196	196	196	196	196	184											
						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	N N	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	n T	A U G	S E P	

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
		Item Nomenclature: C59403 - TOW Family of Missiles

	PRODU	CTION RATES (Un	its/Year)			Р	ROCUREMENT L	EADTIME (Months	s)		
MFR					Init	ial			Reo	rder	
Ref				ALT Prior			Total After	ALT Prior			Total After
# MFR Name - Location	MSR	1-8-5	MAX	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1
1 Raytheon - Tucson, AZ	175	600	1400	2	3	21	24	3	2	21	23

#### Remarks:

Multiyear contracts do not follow the Administrative Lead Time shown for annual year contracts.FY11 Army OCO: 1200.FY12-16 Army MultiYear: 6885 (802, 1403, 1447, 1483, 1750).FY12 USMC: 1214.FY13 USMC: 815.Production Rate increase is the result of production line optimization and expansion by RMS to meet the requirements of the FY06-FY11 Production Contract.

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

<sup>(1)</sup>OCO

(2)BASE

<sup>(3)</sup>BASE

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 30: Anti-Tank/

C59300 - TOW 2 System Summary

Assault Missile Sys

ID Code (A=Service Ready, B=Not Service Ready):		Prograi	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	nents:		
Basanina Cumumani	Prior	EV 2044	EV 2042	FY 2013	FY 2013	FY 2013	EV 2044	EV 2045	EV 2046	EV 2047	To	Total
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	F 1 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	19.886	19.931	-	19.931	19.965	19.984	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	19.886	19.931	-	19.931	19.965	19.984	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	19.886	19.931	-	19.931	19.965	19.984	-	-	Continuing	Continuing
(The folio	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

### **Description:**

Flyaway Unit Cost (\$ in Thousands)

Gross/Weapon System Unit Cost (\$ in Thousands)

Description:

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) 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 precision 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), and the M220A2 TOW 2 launcher. The USMC employs the TOW missile from its ITAS launchers, ATGM and AH-1W Cobra helicopters. The TOW missile provides the warfighter with a highly lethal, cost effective, interoperable, multi-purpose weapon.

Item Scho	edule		Р	rior Year	's		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost
C59300 - TOW 2 System Summary	P10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					-			-			19.886			19.931			-			19.931

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

#### Justification:

FY13 Base advance procurement dollars in the amount of \$19.931 million funds Long Lead Items for the second year of a five-year (FY12-16) multi-year contract.

UNCLASSIFIED
Page 1 of 4 P-1 Line #7

	ONGE	10011 123	
Exhibit P-40, Budget Item Justification Sh	eet: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget S 2032A : Missile Procurement, Army / BA 2 : C Assault Missile Sys	ub Activity: Other Missiles / BSA 30 : Anti-Tank/	<b>P-1 Line Item N</b> C59300 - TOW	Nomenclature: 2 System Summary
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B	Items:	Other Related Program Elements:
NOTES: The Army intends to convert any price advantage crea	ted through contract negotiations, other service	procurement, and/or fo	oreign military sales into a buy-to-budget procurement strategy.

LI C59300 - TOW 2 System Summary Army

Exhibit P-10, Advance Procurement Re	equirements	s Analysis	s (page 1	Budget Fu	ınding Jus	tification):	: PB 2013	Army	Date: Feb	ruary 2012		
Appropriation / Budget Activity / Budg 2032A / BA 2 / BSA 30	et Sub Acti	vity:	P-1 Line It C59300 -		nclature: stem Summ	nary			Name):		(Item Numb	
ID Code (A=Service Ready, B=Not Service Ready) :	:-		<b>'</b>	:	MDA	P Code:			· · · · · · · · · · · · · · · · · · ·	:		
First System (2013) Award Date: March 2012			First System March 2014	n (2013) Com	pletion Date:	:		Interval Bet 12 Months	ween System	is:		
	End Item Quantity					FY 2013 (Each)	FY 2014 (Each)	FY 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)	To Complete (Each)	Total (Each)
End Item Quantity	•					-	-	-	-	-	-	-
Cost Element	Procurement Leadtime (Months)	When Rqd	All Prior Years	FY 2011 (\$ M)	FY 2012 (\$ M)	FY 2013	FY 2014 (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)	To Complete	Total
Other	(monure)	(monuto)	(\$ )	(\$ )	(0 )	(0 )	(4 )	(0)	(\$ )	(\$ )	(\$ )	(0 )
Warhead	-	19	-	-	7.687	7.698	-	-	-	-	-	-
Launch Motor	-	14	-	-	1.547	1.537	-	-	-	-	-	-
Flight Motor	-	12	-	-	0.291	0.289	-	-	-	-	-	-
2B Sensor	-	18	-	-	4.623	4.705	-	-	-	-	-	-
Gyro	-	13	-	-	2.645	2.628	-	-	-	-	-	-
Flight Motor Case Kit	-	10	-	-	0.601	0.597	-	-	-	-	-	-
Control Surface Actuators	-	13	-	-	1.565	1.555	-	-	-	-	-	-
Beacon Shutter Actuator	-	11	-	-	0.927	0.922	-	-	-	-	-	-
Other Subtotal			0.000	0.000	19.886	19.931	0.000	0.000	0.000	0.000	0.000	0.00
Total Advance Procurement/Obligation Authority			-	-	19.886	19.931	-	-	-	-	-	-

Exhibit P-10, Advance Procurement Requirements Analysis	(page 2 - Budget Funding Justification): PB 2013 Army	Date: February 2012
,, ,,	P-1 Line Item Nomenclature: C59300 - TOW 2 System Summary	Item Nomenclature (Item Name, Item Number): C59300 - TOW 2 System Summary
ID Code (A=Service Ready, B=Not Service Ready):	MDAP Code:	

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP Code	):	
		FY 2013	
	Unit Cost (\$ K)	<b>Qty</b> (Each)	Total Cost Request
End Item	-	-	19.931

				FY 2013		
Cost Elements	QPA (Each)	Procurement Leadtime (Months)	Unit Cost	Qty (Each)	Contract Forecast Date	Total Cost Request
Other						
Warhead	1	-	-	-	Dec 2012	8
Launch Motor	1	-	-	-	Dec 2012	2
Flight Motor	1	-	-	-	Dec 2012	0
2B Sensor	1	-	-	-	Dec 2012	5
Gyro	1	-	-	-	Dec 2012	3
Flight Motor Case Kit	1	-	-	-	Dec 2012	1
Control Surface Actuators	1	-	-	-	Dec 2012	2
Beacon Shutter Actuator	1	-	-	-	Dec 2012	1

### Description:

Advance Procurement funding in FY12, FY13, FY14 and FY15 procures items to support the FY12-16 multi-year contract for 6,885 TOW (BGM-71 Series) missiles.

UNCLASSIFIED
Page 4 of 4

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 30: Anti-Tank/

ID Code (A=Service Ready, B=Not Service Ready)

C64400 - Guided MLRS Rocket (GMLRS)

Assault Missile Svs

Program Elements for Code B Items:

Other Related	Program	Elements:	0603778A
---------------	---------	-----------	----------

Date: February 2012

	i rogiui	ii Liciniciito i	or code B ite			Ou.	or reciated i	rogram Elem	<b>Citto:</b> 000077	071	
Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
-	2,592	3,204	1,608	186	1,794	1,812	1,806	2,028	2,862	Continuing	Continuing
1,213.505	264.548	333.167	218.679	20.553	239.232	237.684	252.057	277.660	362.965	Continuing	Continuing
-	-	-	-	-	-	-	-	-	-	-	-
1,213.505	264.548	333.167	218.679	20.553	239.232	237.684	252.057	277.660	362.965	Continuing	Continuing
-	-	-	-	-	-	-	-	-	-	-	-
1,213.505	264.548	333.167	218.679	20.553	239.232	237.684	252.057	277.660	362.965	Continuing	Continuing
ving Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented el	sewhere.)			
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
	Years - 1,213.505 - 1,213.505 - 1,213.505 wing Resource	Prior Years FY 2011  - 2,592 1,213.505 264.548  1,213.505 264.548  1,213.505 264.548  wing Resource Summary rows	Prior Years         FY 2011         FY 2012           -         2,592         3,204           1,213.505         264.548         333.167           -         -         -           1,213.505         264.548         333.167           -         -         -           1,213.505         264.548         333.167           wing Resource Summary rows are for informant and analysis of the summary ro	Prior Years         FY 2011         FY 2012         FY 2013           -         2,592         3,204         1,608           1,213.505         264.548         333.167         218.679           -         -         -         -           1,213.505         264.548         333.167         218.679           -         -         -         -           1,213.505         264.548         333.167         218.679           wing Resource Summary rows are for informational purposes         -         -           -         -         -         -           -         -         -         -           -         -         -         -	Years         FY 2011         FY 2012         Base         OCO           -         2,592         3,204         1,608         186           1,213.505         264.548         333.167         218.679         20.553           -         -         -         -         -           1,213.505         264.548         333.167         218.679         20.553           -         -         -         -         -           1,213.505         264.548         333.167         218.679         20.553           ving Resource Summary rows are for informational purposes only. The correspondent of the	Prior Years         FY 2011         FY 2012         FY 2013 Base         FY 2013 OCO         Total Total Total           -         2,592         3,204         1,608         186         1,794           1,213.505         264.548         333.167         218.679         20.553         239.232           -         -         -         -         -         -           1,213.505         264.548         333.167         218.679         20.553         239.232           -         -         -         -         -         -           1,213.505         264.548         333.167         218.679         20.553         239.232           ving Resource Summary rows are for informational purposes only. The corresponding budg         -<	Prior Years         FY 2011         FY 2012         Base         OCO         Total         FY 2014           -         2,592         3,204         1,608         186         1,794         1,812           1,213.505         264.548         333.167         218.679         20.553         239.232         237.684           -         -         -         -         -         -         -         -           1,213.505         264.548         333.167         218.679         20.553         239.232         237.684           -         -         -         -         -         -         -         -           1,213.505         264.548         333.167         218.679         20.553         239.232         237.684           ving Resource Summary rows are for informational purposes only. The corresponding budget requests are         -	Prior Years         FY 2011         FY 2012         FY 2013         FY 2013         FY 2013         FY 2014         FY 2015           -         2,592         3,204         1,608         186         1,794         1,812         1,806           1,213.505         264.548         333.167         218.679         20.553         239.232         237.684         252.057           -         -         -         -         -         -         -         -         -           1,213.505         264.548         333.167         218.679         20.553         239.232         237.684         252.057           -         -         -         -         -         -         -         -         -           1,213.505         264.548         333.167         218.679         20.553         239.232         237.684         252.057           ving Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elementary rows are for informational purposes only. The corresponding budget requests are documented elementary rows.	Prior Years         FY 2011         FY 2012         Base         OCO         Total         FY 2014         FY 2015         FY 2016           -         2,592         3,204         1,608         186         1,794         1,812         1,806         2,028           1,213.505         264.548         333.167         218.679         20.553         239.232         237.684         252.057         277.660           -	Prior Years         FY 2011         FY 2012         Base         OCO         Total Total Total Total Total Total FY 2015         FY 2016         FY 2017           -         2,592         3,204         1,608         186         1,794         1,812         1,806         2,028         2,862           1,213.505         264.548         333.167         218.679         20.553         239.232         237.684         252.057         277.660         362.965           - <td>Prior Years         FY 2011         FY 2012         Base         OCO         Total         FY 2014         FY 2015         FY 2016         FY 2017         Complete           -         2,592         3,204         1,608         186         1,794         1,812         1,806         2,028         2,862         Continuing           1,213.505         264.548         333.167         218.679         20.553         239.232         237.684         252.057         277.660         362.965         Continuing           -</td>	Prior Years         FY 2011         FY 2012         Base         OCO         Total         FY 2014         FY 2015         FY 2016         FY 2017         Complete           -         2,592         3,204         1,608         186         1,794         1,812         1,806         2,028         2,862         Continuing           1,213.505         264.548         333.167         218.679         20.553         239.232         237.684         252.057         277.660         362.965         Continuing           -

### Description:

Guided Multiple Launch Rocket System (GMLRS) munitions are the Army's primary organic Joint Expeditionary, all-weather, 24/7, tactical precision guided rockets employed by modular Fires Brigades supporting Brigade Combat Teams, Divisions, Joint Special Operations Force, and Joint Force combatant commanders and is also a key component of the Marine Corps Future Fighting Effort. GMLRS are the primary munitions for units fielded with the High Mobility Artillery Rocket System (HIMARS) and Multiple Launch Rocket System (MLRS) M270A1 rocket and missile launcher platforms. GMLRS provides close, medium, and long range precision and area fires to destroy, suppress and shape threat forces and protect friendly forces against: cannon, mortar, rocket and missile artillery, light material and armor, personnel, command and control, and air defense surface targets. GMLRS integrates guidance and control packages and an improved rocket motor achieving greater range and precision accuracy, requiring fewer rockets to defeat targets, thereby reducing the logistics burden. The two fielded variants are GMLRS with Dual Purpose Improved Conventional Munitions (DPICM/Increment 1) and GMLS Unitary (U/Increment 2), a 200-pound class high explosive warhead. The GMLRS Unitary (U/Increment 2) is the only variant of MLRS Family of Munitions (MFOM) currently in production. This rocket integrates a 200-pound class high explosive warhead with multi-mode fuzing options (proximity, point detonate, and delay), expanding the MLRS target set into urban, complex, pre-planned and Troops in Contact (TIC) scenarios by delivering a low collateral damage, precision strike rocket. GMLRS Unitary is relevant to current operations with over 2121 rockets fired in support of Overseas Contingency Operations (OCO) by the Army, Marine Corps and United Kingdom. A third variant of GMLRS, the Alternative Warhead (AW/Increment 3), is being developed to replace GMLRS DPICM and meet requirements outlined in a 25 JUN 2008 Cluster Munitions Policy, which requires all clust

All variants of GMLRS share at least 80% commonality and are procured under this funding line. GMLRS is manufactured in Camden, Arkansas.

GMLRS Foreign Partners have indicated that they intend to procure significantly less GMLRS rockets through FY17 which negates the advantage of economies of scale.

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	2,592	3,204	1,608	186	1,794
	Total Obligation Authority	264.548	333.167	218.679	20.553	239.232

UNCLASSIFIED

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 30: Anti-Tank/

C64400 - Guided MLRS Rocket (GMLRS)

Assault Missile Sys

ID Code (A=Service Ready	, B=Not Service Read	dy):				Program	Element	s for Cod	e B Items	<b>s</b> :			Othe	er Related	l Progran	n Elemei	nts: 0603	778A		
Item Sche	dule		Р	rior Year	'S		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
*** (See enclosed P-40A)	P40A				-			0.369			0.412			0.427			-			0.427
C65404 - GUIDED MLRS ROCKET (GMLRS)	P5, P5A, P21		-	-	-	-	2,592	264.179	-	3,204	332.755	-	1,608	218.252	-	186	20.553	-	1,794	238.805
Total Gross/Weapon System Cost					1,213.505			264.548			333.167			218.679			20.553			239.232

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

#### Justification:

FY 2013 Base procurement dollars in the amount of \$218.679 million supports the acquisition of 1608 GMLRS Unitary rockets for the United States Army and procures the support and equipment for maintenance and obsolescence issues with the fielded Multiple Launch Rocket System Common Test Device (MCTD) Trainers hardware and software. The Army Procurement Objective is 43560 Rockets. FY 2013 OCO procurement dollars in the amount of \$20.553 million supports the acquisition of 186 GMLRS Unitary rockets for the United States Army to replace rockets expended in theater.

The column on the Tactical GMLRS line in the P-5 for base rockets includes base rocket quantity cost and other production contract CLINs such as Army ILS and Obsolescence. The column for OCO dollars on the Tactical GMLRS line only includes the cost to procure additional rockets to replace rockets expended in theater. The OCO-funded rockets do not share in the cost of other production contract CLINs such as ILS and Obsolescence. Note that the additional OCO buys do not add quantity to the GMLRS total APO of 43560 since they are a direct replacement for OCO rocket expenditures. GMLRS Unitary is relevant to current operations with over 2121 rockets fired in support of Overseas Contingency Operations (OCO) by the Army, Marine Corp and United Kingdom.

UNCLASSIFIED Page 2 of 9

								UN	CLASS	ILIED									
Exhibit P-5, Cos	t Ar	nalysis:	PB 2013	Army										I	Date: Fe	ebruary 2	012		
Appropriation / B 2032A / BA 2 / BS			vity / Bu	idget Si	ub Activ	ity:			Nomenc ed MLRS		(GMLR	S)			Name, D	ODIC): - GUIDE	•	ROCKE	,
		Resou	ırce Sun	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 2013	3 ОСО	FY 2013	3 Total
Procurement Quantity	/ (Ea	ch)							-		2,592		3,204		1,608		186		1,794
Gross/Weapon System	m Co	st (\$ in Mi	llions)						-	2	64.179		332.755		218.252		20.553		238.80
Less PY Advance Pro									-		_		-		-		-		
Net Procurement (P1)									-		264.179		332.755		218.252		20.553		238.80
Plus CY Advance Pro			Millions)						_		_		-		_		_		
Total Obligation Author		· · · · · · · · · · · · · · · · · · ·							-	2	264.179		332.755		218.252		20.553		238.80
3.1.3	-,			e followina	Resource Si	ummary rows	s are for inf	formational r	ourposes only					umented els					
Initial Spares (\$ in Mil	lions	)	( )	· · · · · · · · · · · · · · · · ·		. ,			-	, : ::::	-	3:::-4200	-		-		-		
Gross/Weapon System		_	n Thousan	ds)					-		-		-		-		-		_
, ,		· ·	Prior Years			FY 2011			FY 2012		F'	Y 2013 Bas	se	F	Y 2013 O	0	F`	Y 2013 Tota	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost					'							'		'	,				
Recurring Cost								1	1										
† Tactical GMLRS		-	-	-	91.000	2,592	235.872	92.000		294.768	109.000	1,608	175.272		186	-	109.000	1,794	195.54
Engineering Services Ind Maint/Init Prod		-	-	-	-	-	5.244 0.000	-	-	7.771 0.000	-	-	7.492 0.000	_	-	0.279	-	-	7.77 0.00
Fac																			
Interim Contractor Support		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000		-	-	-	-	0.00
First Destination Transportation		-	-	-	-	-	0.517	-	-	0.595	-	-	0.260		-	0.000	-	-	0.26
Project Management Admin		-	-	-	-	-	6.379	-	-	5.949	-	-	5.427		-	0.000	-	-	5.42
Production Engineering Support		-	-	-	-	-	10.359	-	-	16.525	-	-	18.030	-	-	0.000	-	-	18.03
MCTD Upgrades- Software Engineering		-	-	-	-	-	0.000	-	-	0.000	-	-	5.300	-	-	0.000	-	-	5.30
Government Test		-	-	-	-	-	5.808	-	-	7.147	-	-	6.471		-	0.000	-	-	6.47
GMLRS Training Devices		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000		-	-	-	-	0.00
Msl Test Device and Trainer		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Trainer	_		1	_	l _	_	0.000	_	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Spares		-	-						_						i			+	
		-	-	0.000			264.179			332.755 332.755			218.252 218.252			20.553 20.553			238.80 238.80

LI C64400 - Guided MLRS Rocket (GMLRS) Army

UNCLASSIFIED
Page 3 of 9

Exhibit P-5, Cost Analysis: PB 2013 ArmyDate: February 2012Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:Item Nomenclature (Item Number, Item Name, DODIC):2032A / BA 2 / BSA 30C64400 - Guided MLRS Rocket (GMLRS)Name, DODIC):C65404 - GUIDED MLRS ROCKET (GMLRS)

		-	Prior Years	3		FY 2011			FY 2012		F	Y 2013 Bas	se	F`	Y 2013 OC	:0	F`	Y 2013 Tot	al
(† indicates the	ID CD	Ullit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Gross Weapon System Cost				-			264.179			332.755			218.252			20.553			238.805

Remarks:

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	2,592	3,204	1,608	186	1,794
	Total Obligation Authority	264.179	332.755	218.252	20.553	238.805

UNCLASSIFIED
Page 4 of 9

Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

C64400 - Guided MLRS Rocket (GMLRS)

Date: February 2012

Item Nomenclature:

C65404 - GUIDED MLRS ROCKET

(GMLRS)

Cost Elements († indicates the presence of a P-21)	0 C 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†Tactical GMLRS		2011	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FFP	AMCOM	Mar 2011	May 2012	2,592	91.000	N		May 2010
†Tactical GMLRS		2012	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS/FFP	AMCOM	Apr 2012	May 2013	3,204	92.000	N		May 2011
†Tactical GMLRS		2013	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FFP	AMCOM	Mar 2013	Apr 2014	1,794	109.000	N		May 2012

#### Remarks

Lockheed Martin is currently the industry source that is both facilitized and qualified to produce the GMLRS rocket.

2032A / BA 2 / BSA 30

<sup>\*</sup>Sole Source/Firm Fixed Price

<sup>\*\*</sup>Aviation and Missile Command, Redstone Arsenal, Alabama

Date: February 2012 Exhibit P-21, Budget Production Schedule: PB 2013 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2032A / BA 2 / BSA 30 C64400 - Guided MLRS Rocket (GMLRS) C65404 - GUIDED MLRS ROCKET (GMLRS) COST ELEMENTS Fiscal Year 2012 Fiscal Year 2013 **Units in Each** BAL Calendar Year 2012 Calendar Year 2013

0 C 0	MFR Ref#	FY	SERVICE <sup>1</sup>	PROC	ACCEP PRIOR TO 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	JUN	JUL	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	A U G	S E P	B A L
Та	actical G	MLRS																													
	1	2011	ARMY	2592	0	2592	-	-	-	-	-	-	-	30	29	29	29	343	340	340	340	340	340	216	216						
	1	2011	• MC	114	0	114	-	-	-	-	-	-	-	9	9	9	9	9	9	9	9	9	11	11	11						
	1	2011	◆ FMS	88	0	88	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	9	9						
	1	2011	TOTAL	2794	0	2794	-	-	-	-	-	-	-	46	45	45	45	359	356	356	356	356	358	236	236						
	1	2012	ARMY	3204	0	3204	-	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	-	267	267	267	267	267	1869
	1	2012	• MC	96	0	96	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-	8	8	8	8	8	56
	1	2012	TOTAL	3300	0	3300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	275	275	275	275	275	1925
	1	2013	ARMY	1794	0	1794	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	1794
	1	2013	◆ MC	1398	0	1398	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1398
	1	2013	TOTAL	3192	0	3192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3192
		•	•				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	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	n T	A U G	S E P	

UNCLASSIFIED
Page 6 of 9

44

	oit P-2	1, Budg	et Pro	ducti	ion S	chedu	ıle: P	B 20	13 Arr	ny													Date	: Feb	ruary	2012	<u> </u>		
		<b>on / Bu</b> 2 / BSA		Activi	ty / B	udge	t Sub	Activ	vity:				<b>tem N</b> Guide				(GM	LRS)						04 -	<b>encla</b> GUID			ROC	KET
	(	OST ELEN								F:	scal Ye	o= 204											scal Ye	~~ 204	_				
		Units in E	acn		BAL					FIS	scai re	ar 2014		endar Y	ear 20	14						FI			อ dar Yea	r 2015			
) MF ) Ref	tical GMLRS								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
actica																													
1	_		2592																										
1	2011		114		-																								
1		◆ FMS	88		_																								
1	2011		2794	_																									
1	_	ARMY	3204			267	267	267	267	267	267	267																	
1		◆ MC	96	40	_	8	8	8	8	8	8	8																	
1	_	TOTAL ARMY	<b>3300</b> 1794			275	275	275 -	275	275	275	<b>275</b> 144	144	144	144	156	156	162	156	156	144	144	144						
1		◆ MC	1398			-	-	-	-	-	-	81	119	119	119	119	120	125	120	119	119	119	119						
1		TOTAL	3192		3192	_	-	-	-	-	-	225	263	263	263	275	276	287	276	275	263	263	263						
1-	2010	TOTAL	0.02		0.02	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 L	A U G	S E P

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2032A / BA 2 / BSA 30	P-1 Line Item Nomenclature: C64400 - Guided MLRS Rocket (GMLRS)	Item Nomenclature: C65404 - GUIDED MLRS ROCKET (GMLRS)

		PRODUC	CTION RATES (Un	its/Year)			P	ROCUREMENT LI	EADTIME (Months	s)		
MFR						Init	ial			Reo	rder	
Ref #	MFR Name - Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Lockheed Martin M.&F.C Sys Dallas, TX	154	250	500	8	2	11	13	0	2	11	13

#### Remarks:

The PFRMS PMO is raising the Minimum Sustaining Rate (MSR) for GMLRS due to the final delivery and installation of hardware necessary to achieve the DAdirected 6,000 rate capacity. Production below MSR will significantly impact unit cost due to increased overhead/maintenance required to support Department of Army directed facilition. Production of GMLRS varies as this program shares a production line with LCRRPRs. There are no production gaps during months that GMLRS are not being produced as LCRRPRs Rocket production continues. For FY13 there have been no Letters of Request for FMS procurement of GMLRS rockets.

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

UNCLASSIFIED

Exhibit P-40A, Budget Item Justification For Aggregated Ite	ems: PB 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Aggregated Item Name:
2032A / BA 2 / BSA 30	C64400 - Guided MLRS Rocket (GMLRS)	Various

											•								
	All Prior Years FY 201								FY 2012		F	Y 2013 Base	)	i	FY 2013 OCO		F	FY 2013 Total	1
Items († indicates the presence of a P-5A)	ID CD	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)
(Uncategorized)																			
C65406 - GMLRS Training Devices		-	-	-	-	-	0.369	-	-	0.412	-	-	0.427	-	-	-	-	-	0.427
Uncategorized Subtotal				0.000			0.369			0.412			0.427			0.000			0.427
Total				0.000			0.369			0.412			0.427			0.000			0.427

Remarks:

UNCLASSIFIED Page 9 of 9

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 30: Anti-Tank/

C65405 - MLRS Reduced Range Practice Rockets (RRPR)

Assault Missile Sys

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0210602A

ID Godo (it derined ready, B Not derined ready).		i regiui	=	o. couc 2	,,,,,		•	or resideou i	. og. a =.o	011101 02 1000	, ,	
	Prior			FY 2013	FY 2013	FY 2013					То	
Resource Summary	Years	FY 2011	FY 2012	Base	oco	Total	FY 2014	FY 2015	FY 2016	FY 2017	Complete	Total
Procurement Quantity (Each)	-	2,149	2,370	2,430	-	2,430	2,412	2,706	2,706	2,688	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	103.489	15.796	18.175	18.767	-	18.767	19.083	21.567	21.934	22.307	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	103.489	15.796	18.175	18.767	-	18.767	19.083	21.567	21.934	22.307	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	103.489	15.796	18.175	18.767	-	18.767	19.083	21.567	21.934	22.307	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	7.350	7.669	7.723	-	7.723	7.912	7.970	8.106	8.299	Continuing	Continuing

### **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 Overseas Contingency Operations (OCO). HIMARS and M270A1 Battalions 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.

Seco	ondary Distribution	on	FY 2	2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity			1,340	1,332	1,27		1,270
	Total Obligation Auth	ority		7.994	10.217	10.63	-	10.632
Army National Guard	Quantity			809	1,038	1,16	-	1,160
imy National Guard	Total Obligation Auth	ority		7.802	7.958	8.13	-	8.135
Item Sch	edule	Prior Ye	ars	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total

Item Sche	dule		P	rior Year	'S		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
		ID	Unit Cost	Qty		Unit Cost	Qty	Total Cost		Qty					Unit Cost	Qty		Unit Cost		Total Cost
Item Nomenclature*	Exhibits	CD	(\$ K )	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M )	(\$ K )	(Each)	(\$ M )	(\$ K)	(Each)	(\$ M )	(\$ K )	(Each)	(\$ M)	(\$ K )	(Each)	(\$ M )
C65405 - MLRS Reduced Range Practice Rockets (RRPR)	P5, P5A, P21		-	-	-	7.350	2,149	15.796	7.669	2,370	18.175	7.723	2,430	18.767	-	-	-	7.723	2,430	18.767

UNCLASSIFIED
Page 1 of 8

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 30: Anti-Tank/

C65405 - MLRS Reduced Range Practice Rockets (RRPR)

Assault Missile Sys

ID Code (A=Service Ready,	B=Not Service Rea	ady) :				Program	Element	s for Cod	e B Items	<b>:</b> :			Oth	er Relate	d Progran	n Elemei	nts: 0210	602A		
Item Sched	Item Schedule		Р	rior Year	's		FY 2011			FY 2012		FY	2013 Ba	ase	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
Total Gross/Weapon System Cost					103.489			15.796			18.175			18.767			-			18.767

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

#### Justification:

FY2013 Base procurement dollars in the amount of \$18.767 million support funding to procure 2430 LCRRPRs which are required to maintain the practice rocket inventory for Standards in Training Commission (STRC) requirements.

UNCLASSIFIED Page 2 of 8

								OIN	CLASS	,,, ,									
Exhibit P-5, Cos	t Ar	alysis:	PB 2013	Army											Date: Fe	ebruary 2	012		
<b>Appropriation /</b> 2032A / BA 2 / B			vity / Bu	ıdget Sı	ub Activ	rity:	1	ne Item   05 - MLR			e Practi	ice Rocke	ts (RRF	PR)	<i>Name, [</i> C65405	menclat OODIC): - MLRS Rockets	· Reduced		r, Item
		Resou	ırce Sun	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 201	3 OCO	FY 2013	3 Total
Procurement Quantity	y (Ea	ch)							-		2,149		2,370		2,430		-		2,43
Gross/Weapon Syste	m Cc	st (\$ in Mi	llions)						-		15.796		18.175		18.767		-		18.76
Less PY Advance Pro	ocure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1	) (\$ ir	Millions)							-		15.796		18.175		18.767		-		18.76
Plus CY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Total Obligation Author	ority	\$ in Millior	ns)						-		15.796		18.175		18.767		-		18.76
			(Th	e following	Resource S	Summary rows	s are for int	formational p	ourposes onl	y. The corre	sponding b	udget reques	ts are docu	mented els	ewhere.)				
Initial Spares (\$ in Mi	llions	)							-		-		-		-		-		-
Gross/Weapon Syste	m Ur	it Cost (\$ i	n Thousan	ıds)					-		7.350		7.669		7.723		-		7.72
		F	Prior Years	5		FY 2011			FY 2012		F	Y 2013 Bas	e	F	Y 2013 O	СО	F	Y 2013 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost														1	1				
† Reduced Range Practice Rocket (LCRRPR)		-	-	-	5.320	2,149	11.433	5.650	2,370	13.399	5.850	2,430	14.221	-	-	0.000	5.850	2,430	14.22
Warheads Govt Furnished Equip (GFE)		-	-	-	-	-	1.641	-	-	2.004	-	-	1.702	-	-	0.000	-	-	1.70
Engineering Services		-	-	-	-	-	0.539	-	-	0.289	-	-	0.298	-	-	0.000	-	-	0.29
First Destination Transportation		-	-	-	-	-	0.028	-	-	0.028	-	-	0.016	-	-	0.000	-	-	0.01
Project Management Admin		-	-	-	-	-	0.651	-	-	0.654	-	-	0.675	-	-	0.000	-	-	0.67
Production Engineering Support		-	-	-	-	-	1.091	-	-	1.386	-	-	1.427	-	-	0.000	-	-	1.42
Test and Evaluation		-	-	-	-	-	0.413		-	0.415	-	-	0.428	-	-	0.000	-	-	0.42
Total Recurring Cost				0.000			15.796			18.175			18.767			0.000			18.76
Total Flyaway Cost	-			0.000			15.796			18.175			18.767			0.000			18.76
Gross Weapon System Cost				<u>-</u>			15.796			18.175			18.767			-			18.76
Remarks:															=>/.00/		1		
	onda	ry Distrib	ution			FY 201	1		FY 201	2		FY 2013 Base			FY 201 OCO	3		FY 2013 Total	

LI C65405 - MLRS Reduced Range Practice Rockets (RRPR) Army

UNCLASSIFIED
Page 3 of 8

Exhibit P-5, Cost Analysis: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2032A / BA 2 / BSA 30	P-1 Line Item Nomenclature: C65405 - MLRS Reduced Range Practice Rockets (RRPR)	Item Nomenclature (Item Number, Item Name, DODIC): C65405 - MLRS Reduced Range Practice Rockets (RRPR)

Sec	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
	Total Obligation Authority	7.994	10.217	10.632	-	10.632
Army National Guard	Quantity	809	1,038	1,160	-	1,160
	Total Obligation Authority	7.802	7.958	8.135	-	8.135

Exhibit P-5A, Budget Procurement History and Planning: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / BA 2 / BSA 30

P-1 Line Item Nomenclature:

C65405 - MLRS Reduced Range Practice Rockets (RRPR)

C65405 - MLRS Reduced Range Practice Rockets (RRPR)

Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†Reduced Range Practice Rocket (LCRRPR)		2011	Lockheed Martin / Dallas	SS/FFP	AMCOM, RSA, AL	Mar 2011	May 2012	2,149	5.320	N		May 2010
†Reduced Range Practice Rocket (LCRRPR)		2012	Lockheed Martin / Dallas	SS/FFP	AMCOM, RSA, AL	Apr 2012	May 2013	2,370	5.650	N		May 2011
†Reduced Range Practice Rocket (LCRRPR)		2013	Lockheed Martin / Dallas	SS/FFP	AMCOM, RSA,AL	Mar 2013	Apr 2014	2,430	5.850	N		May 2012

#### Remarks:

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

<sup>\*</sup> Sole source/Firm Fixed Price

<sup>\*\*</sup> Aviation and Missile Command, Redstone Arsenal, AL

Exhibit P-21, Budget Production Schedule: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / BA 2 / BSA 30

P-1 Line Item Nomenclature:

C65405 - MLRS Reduced Range Practice Rockets (RRPR)

C65405 - MLRS Reduced Range Practice Rockets (RRPR)

																								1 140		OUNCE	<u> </u>	,				
		С	OST ELEM Units in E								F	iscal Y	ear 201	2									F	iscal Ye	ear 201:	3						
						BAL								Ca	lendar `	Year 20	12								Calend	dar Year	2013					
0 0		FY	SERVICE <sup>‡</sup>	PROC	ACCEP PRIOR TO 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	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	A U G	S E P	B A L	
R	educed	Range	Practice Ro	cket (LC	RRPR)	)																										
	1	2011	ARMY	2149	0	2149	-	-	-	-	-	-	-	174	174	174	174	174	174	174	174	174	174	204	205							
	1	2011	• MC	600	0	600	-	-	-	-	-	-	-	54	54	54	54	54	54	54	54	42	42	42	42							
	1	2011	TOTAL	2749	0	2749	-	-	-	-	-	-	-	228	228	228	228	228	228	228	228	216	216	246	247							
	1	2012	ARMY	2370	0	2370	-	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	-	197	197	197	197	197	1385	
	1	2012	◆ MC	630	0	630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	53	53	53	53	365	
	1	2012	TOTAL	3000	0	3000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250	250	250	250	250	1750	
	1	2013	ARMY (1)	2430	0	2430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	2430	
	1	2013	• MC <sup>(2)</sup>	732	0	732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	732	
	1	2013	TOTAL	3162	0	3162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3162	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P		

S E P	A U G	J U L	2015 J U	Year	2015					Rocket	ctice F	e Pra			lomei Redi					13 Arr vity:						get A	on / Bud 2 / BSA 3			4
E	U	U	J		Practice Rockets (RRPR)  Fiscal Year 2015  Calendar Year 2015											4	ear 2014	iscal Ye	Fi								OST ELEM Units in Ea			
P	G	L		M A	,	M A	F M E A	A E	E .	0	0 C	S E	A U	Ŋ	J U	M A	A P	M A	F E	J A	D E	N O	0	AS OF 1		PROC	<b>-</b>		MFR	0
			N	Υ	<b>!</b>	R F	B R	N B	С	V	Т	Р	G	L	N	Y	R	R	В	N	С	V	Т	ОСТ	OCT		SERVICE <sup>‡</sup> Practice Ro		Ref #	_
																								0		2149	ARMY		1	
																								0	600	600		2011	1	
																								0	2749	2749	TOTAL	2011	1	
																	198	198	198	198	198	198	197		985	2370	ARMY		1	_
																	52	52	52	52	52	52	53	365	265	630	• MC		1	_
						203	203 20	203 20	203	203	203	202	202	202	202	202	<b>250</b> 202	250	250	250	250	250	250		<b>1250</b>	<b>3000</b> 2430	TOTAL  ARMY (1)		1	_
																														_
S E P	A U G	J	J U N	M A Y	•	M A	F M E A	J F	D	N O	O C	S E	A U	Ŋ	J	M A Y	A P R	M A	F E	J A	D E C	N O V	O C T	0102		0102	TOTAL	2010	•	-
J	ι				•	A F	264 26 F M	264 20 J F A E	D	N O		61 263 S E P				Α	P				E	0	С	732 <b>3162</b>	0	732 <b>3162</b>	• MC <sup>(2)</sup> TOTAL	2013	1 <b>1</b>	

LI C65405 - MLRS Reduced Range Practice Rockets (RRPR) Army

UNCLASSIFIED
Page 7 of 8

Exhibit P-21, Budget Production Schedule: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A / BA 2 / BSA 30

P-1 Line Item Nomenclature:
C65405 - MLRS Reduced Range Practice Rockets (RRPR)

C65405 - MLRS Reduced Range Practice Rockets (RRPR)

		PRODUC	CTION RATES (Un	its/Year)			Р	ROCUREMENT L	EADTIME (Months	s)			
MF	R					Init	ial			Reo	der		
Ref	1				ALT Prior	ALT Prior Total After ALT Prior							
#	MFR Name - Location	MSR	1-8-5	MAX	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1	
1	Lockheed Martin - Dallas	42	480	960	8	2	11	13	0	2	11	13	

#### Remarks:

Production of LCRRPRs varies as this program shares a production line with GMLRS. There are no production gaps during months that RRPRs are not being produced as GMLRS Rocket production continues.

LI C65405 - MLRS Reduced Range Practice Rockets (RRPR)

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

<sup>&</sup>lt;sup>(1)</sup>BASE

<sup>&</sup>lt;sup>(2)</sup>BASE

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

5110*2*, 10011 122

Program Flements for Code B Items:

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 2: Other Missiles / BSA 30: Anti-Tank/

C02901 - High Mobility Artillery Rocket System (HIMARS)

Assault Missile Sys

ID Code (A=Service Ready, B=Not Service Ready)

Other Related Program Elements: 0210608A, 0603778A

Date: February 2012

ID Code (A=Service Ready, b=Not Service Ready):		Fiograi	ii Eleilleills i	or code b ite	ilio.		Oui	iei Keiateu F	rogram Elem	ents. 02 1000	JOA, UUUS <i>I 101</i>	٦
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	44	-	-	-	-	-	-	-	-	0	44
Gross/Weapon System Cost (\$ in Millions)	1,420.657	203.369	31.674	12.051	-	12.051	-	-	-	-	0.000	1,667.751
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,420.657	203.369	31.674	12.051	-	12.051	-	-	-	-	0.000	1,667.751
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,420.657	203.369	31.674	12.051	-	12.051	-	-	-	-	0.000	1,667.751
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	63.622	9.651	0.937	-	-	-	-	-	-	-	0.000	74.210
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

The M142 High Mobility Artillery Rocket System (HIMARS) is a full spectrum, combat proven, all weather, 24/7 lethal and responsive, precision strike weapon system that 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 engaging a variety of targets while 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) out to ranges of 300 kilometers. The HIMARS launcher has extensive commonality in both functionality and operational employment with the MLRS M270A1 tracked launcher and consists of a Fire Control System, a carrier (FMTV XM1140A1 automotive chassis) and a launcher-loader module (LLM) that performs all operations necessary to complete a fire mission. HIMARS also satisfies the Army's digitization requirements by interfacing with the Advanced Field Artillery Tactical Data System (AFATDS) fire support command and control system. HIMARS, as part of the Fires Brigade, provides fires that shape, shield and isolate the battle space and while using both precision GMLRS and ATACMS Unitary munitions, HIMARS provides close support fires for Troops in Contact (TIC) in both open and urban terrain. The HIMARS provides Joint Expeditionary Forces a flexible and lethal rocket/missile capability. HIMARS units can be quickly tailored for centralized or decentralized execution throughout the entire battle space in support of ground forces. The program also includes training devices for tactical training, classroom training, and handling exercises for optimal performance. HIMARS has been deployed to Operation Iraqi Freedom (OIF) and is still

supporting Operation Enduring Freedom (OEF) with great success by both US Army and Marine Corps units.

Item Sche	dule		Р	rior Year	rs		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	<b>2013 To</b>	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost (\$ K)	<b>Qty</b> (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
*** (See enclosed P-40A)	P40A				-			5.673			7.490			-			-			-
C03000 - HIMARS LAUNCHER	P5, P5A, P21		-	-	-	-	44	197.696	-	-	24.184	-	-	12.051	-	-	-	-	-	12.051
Total Gross/Weapon System Cost					1,420.657			203.369			31.674			12.051			-			12.051

UNCLASSIFIED
Page 1 of 8

	UNCL	ASSIFIED	
Exhibit P-40, Budget Item Justification Sho	eet: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget S 2032A : Missile Procurement, Army / BA 2 : C Assault Missile Sys		P-1 Line Item N C02901 - High N	lomenclature: Mobility Artillery Rocket System (HIMARS)
D Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B	Items:	Other Related Program Elements: 0210608A, 0603778A
Item Nomenclature represents Item Number, DODIC, and Item	Name for the P40A and P5; Name for the P18 and P2	3; Modification Number and	d Modification Title for the P3A; Item Number and Item Name for the P10.
	goal for the 21st century and was selected by		gineering services, software, field support and associated support items of as one of the Army's core systems of the Fires Brigade. The approved Army

LI C02901 - High Mobility Artillery Rocket System (HIMARS) Army

UNCLASSIFIED Page 2 of 8

Exhibit P-5, Cos	t Ar	nalysis:	PB 2013	Army											Date: Fe	bruary 2	012		
Appropriation / E 2032A / BA 2 / BS			ivity / Bu	ıdget Sı	ub Activ	ity:			Nomenc Mobility		Rocket	System (	HIMAR	S) /	Vame, D	<b>menclat</b> PODIC): - HIMAR	•		r, Item
		Resou	urce Sun	nmary				Prior Ye	ars	FY 20	11	FY 20	12	FY 2013	Base	FY 2013	3 ОСО	FY 201	3 Total
Procurement Quantity	(Ea	ich)							-		44		-		-		-		-
Gross/Weapon Syster	m Co	ost (\$ in Mi	illions)						-	1	97.696		24.184		12.051		-		12.05
Less PY Advance Pro	cure	ement (\$ in	Millions)						-		-		-		-		-		
Net Procurement (P1)		•							-	1	97.696		24.184		12.051		_		12.05
Plus CY Advance Pro			Millions)						_		_		_		_		_		
Total Obligation Author									_	1	97.696		24.184		12.051		_		12.05
Total Obligation Autili	Jiity	(\$ III WIIIIO		e following	Pasauraa S	ummanı rovi	s are for in	formational				udaet reaue		umented else					12.03
Initial Spares (\$ in Mil	lions	;)	(111	e ronowing	resource Si	uniniary 10W	s are for IIII	iorriauoriai p	- Jui poses oni	y. THE COILE	9.651	augei reques	0.937	umenteu elst	-		_ [		
. ,			in Thousan	ide)					_		-		0.557		_		_		
Gross/Weapon System	oss/Weapon System Unit Cost (\$ in Thousands)  Prior Years  FY					FY 2011		- FY 201				Y 2013 Bas			Y 2013 O	20		Y 2013 Tot	
Cost Elements († indicates the	ID			Total Cost	Unit Cost	Quantity	Total Cost	Unit Cost		Total Cost	Unit Cost		Total Cost	Unit Cost		Total Cost	Unit Cost		Total Cost
presence of a P-5A)	CD	(\$ K)	(Each)	(\$ M )	(\$ K)	(Each)	(\$ M )	(\$K)	(Each)	(\$ M )	(\$ K)	(Each)	(\$ M )	(\$K)	(Each)	(\$ M )	(\$K)	(Each)	(\$ M)
Flyaway Cost		,							'					'					
Recurring Cost																			
† Launcher		-	-	-	2,953.841	44	129.969	-	-	0.000	-	-	0.000		-	-	-	-	0.00
Carrier		-	-	-	529.795	44	23.311	-	-	0.000	-	-	0.000	+	-	-	-	-	0.00
Engineering Services	-	-	-	-	-	-	9.213		-	7.256	-	-	4.521		-	0.000	-	-	4.52
Fielding	-	-	-	-	-	-	8.166		-	3.402	-	-	2.569	+	-	0.000	-	-	2.56
Facilitization Project Management		-	-	-	-	-	0.000 8.065		-	0.000 2.850	-	-	2.396		-	0.000	-	-	0.00 2.39
Admin		_	_		-	-			_			-			-		-	-	
Production Engineering		-	-	-	-	-	9.829	-	-	1.846	-	-	1.386	-	-	0.000	-	-	1.38
Government Testing		-	-	-	-	-	2.499	-	-	0.753	-	-	0.487	-	-	0.000	-	-	0.48
Peculiar Support Equipment		-	-	-	-	-	0.971	-	-	0.587	-	-	0.692	-	-	0.000	-	-	0.69
OMEMS Tactical Trainer		-	-	-	-	-	4.904	-	-	6.758	-	-	0.000	-	-	-	-	-	0.00
MFOM Simulator (MLPA)		-	-	-	-	-	0.769	-	-	0.732	-	-	0.000	-	-	-	-	-	0.00
Organizational Maintenance Trainer		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Initial Spares	l	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.00
Total Recurring Cost				0.000			197.696			24.184			12.051	1		0.000			12.05
				0.000			197.696			24.184			12.051	1		0.000			12.05
Total Flyaway Cost																			

LI C02901 - High Mobility Artillery Rocket System (HIMARS) Army

UNCLASSIFIED
Page 3 of 8

Exhibit P-5, Cost Analysis: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2032A / BA 2 / BSA 30	P-1 Line Item Nomenclature: C02901 - High Mobility Artillery Rocket System (HIMARS)	Item Nomenclature (Item Number, Item Name, DODIC): C03000 - HIMARS LAUNCHER
Remarks:		

Se	econdary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	2.990	11.056	12.051	-	12.051
Army National Guard	Quantity	44	-	-	-	-
	Total Obligation Authority	194.706	13.128	-	-	-

Exhibit P-5A, Budget Procurement History and Planning: P	13 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2032A / BA 2 / BSA 30	<b>Line Item Nomenclature:</b> 2901 - High Mobility Artillery Rocket System (H	HIMARS) Item Nomenclature: C03000 - HIMARS LAUNCHER
Cost Elements C C Contractor and Location	Method Location Date of First	Specs   Specs   Avail   Date Revsn   RFP Issue   Pote

Cost Elements († indicates the presence of a P-21)	0 0 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†Launcher		2011	Lockheed Martin M. F. C. Sys / Dallas Texas	SS / FFP	AMCOM	Dec 2010	Apr 2012	44	2,953.841	N		Aug 2010

Remarks:

Note #1: 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.

Ex	hibit	P-21	I, Budg	et Pro	oduct	ion S	ched	ule: F	PB 20	13 Ar	my													Date	: Feb	ruary	2012	<u>!</u>			
			<b>on / Bu</b> 2 / BSA		Activi	ty / B	udge	t Suk	) Acti	vity:			<b>Line I</b> 901 -					Rock	et Sy	stem	(HIMA	ARS)					ature: ARS L		CHER		
		C	OST ELEM Units in E								F	iscal Y	ear 201	2									F	iscal Y	ear 201	3					
	BAL ACCEP DUE									Ca	lendar	Year 20	)12								Calen	dar Yea	ar 2013								
	MFR Ref#	FY	SERVICE	PROC	PRIOR	_	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J J	A U G	S E P	B A L
Lai	uncher																														
	1 2011 ARMY 44 0 44								-	-	-	4	4	4	4	4	3	3	3	3	3	3	3	3							
	O N D J C O E A T V C N							F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P				

Exhibit P-21, Budget Production Schedule: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2032A / BA 2 / BSA 30	C02901 - High Mobility Artillery Rocket System (HIMARS)	C03000 - HIMARS LAUNCHER

		PRODUC	CTION RATES (Un	its/Year)			Р	ROCUREMENT L	EADTIME (Months	s)				
MFR					Initial Reorder									
Ref	MFR Name - Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1		
1	Lockheed Martin M. F. C. Sys - Dallas Texas	2	7	12	8	3	16	19	0	3	16	19		

#### Remarks:

UNCLASSIFIED
Page 7 of 8

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

Exhibit P-40A, Budget Item Justification For Aggregated Ite	ems: PB 2013 Army	Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Aggregated Item Name:
2032A / BA 2 / BSA 30	C02901 - High Mobility Artillery Rocket System (HIMARS)	Various

		<b>A</b>	All Prior Years	5		FY 2011			FY 2012		F	FY 2013 Base	)	F	Y 2013 OCO		ı	FY 2013 Total	l
Items († indicates the presence of a P-5A)	ID CD	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M )	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M )	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)
(Uncategorized)																			
C03001 - HIMARS Training Devices		-	-	-	-	-	5.673	-		7.490	-	-	-	-	-	-	-	-	-
Uncategorized Subtotal				0.000			5.673			7.490			0.000			0.000			0.000
Total				0.000			5.673			7.490			0.000			0.000			0.000

Remarks:

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 3: Modification of Missiles / BSA 10:

C50700 - Patriot Mods

Modifications

ID Code (A=Service Ready, B=Not Service Ready) :		Program	m Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	nents: 021440	01A	
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,413.630	56.849	66.925	199.565	-	199.565	258.655	234.737	328.959	329.249	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2,413.630	56.849	66.925	199.565	-	199.565	258.655	234.737	328.959	329.249	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,413.630	56.849	66.925	199.565	-	199.565	258.655	234.737	328.959	329.249	Continuing	Continuing
(The fo	llowing Resource	Summary rows	are for informa	ntional purposes	only. The corr	esponding budg	et requests are	documented e	lsewhere.)			
Initial Spares (\$ in Millions)	178.406	6.953	6.732	6.800	-	6.800	6.839	5.847	5.960	6.062	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	_	_	_	_	_	_	_	_	_	_	_	_

V - 2 - 2 - 2						-1 3 3						-
Initial Spares (\$ in Millions)	178.406	6.953	6.732	6.800	-	6.800	6.839	5.847	5.960	6.062	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

The Patriot weapon system modernization 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 (PIP); corrections identified in the field; obsolescence issues; emerging technologies; software improvements; crew interface and communication upgrades.

Second	dary Dis	stribution		FY 2011		FY 2012	2	FY 201 Base		FY 201 OCO	3	FY 20 <sup>2</sup> Total		FY 20	014	FY 20	)15	FY 20	016	FY 2	2017
Army Active	Quantity	/			-		-		-		-		-		-		-		-		-
	Total Ob	oligation Authority		56	.849	6	6.925	1	99.565		-	1	199.565		258.655		234.737		328.959		329.249
It	tem Sch	edule		Р	rior Yea	rs		FY 2011			FY 2012		F۱	/ 2013 Ba	ase	FY	2013 O	co	FY	2013 To	tal
Item Nomen		Exhibits P3A	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M ) 2,413.630	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M) 56.849	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M) 66.925	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M) 199.565	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M) 199.565
Total Gross/Wea System Cost	apon					2,413.630			56.849			66.925			199.565			-			199.565
		,			FY 2014			FY 2015			FY 2016			FY 2017	,	To	Comple	ete		Total	
Item Nomen	clature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
PATRIOT MODS	- Various	P3A		_ [	_	258.655	_	_	234.737	_	-	328.959	_	_	329.249	-	-	-	_	-	_

**UNCLASSIFIED** Page 1 of 18

							UNC	CLASS	SIFIED	)									
Exhibit P-40, Budget Item Ju	ustifi	cation	Sheet:	PB 201	3 Army									Date	: Febr	uary 201	2		
Appropriation / Budget Acti 2032A : Missile Procurement, Modifications						es / BS	SA 10 :			Item No - Patriot		ature:		ı					
ID Code (A=Service Ready, B=Not Service Re	eady) :				Program	Element	ts for Cod	le B Items	s:			Oth	er Relate	d Progran	n Eleme	nts: 0214	401A		
			FY 2014			FY 2015	5		FY 2016	3		FY 2017	•	To	Compl	ete		Total	
Item Nomenclature* Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
Total Gross/Weapon System Cost				258.655			234.737			328.959			329.249			-			-
*Item Nomenclature represents Item Numb	er, DO	DIC, and It	em Name	for the P40	A and P5; I	Name for	the P18 and	d P23; Mod	ification N	umber and	Modificatio	n Title for	the P3A; Ite	m Number	and Item	Name for th	e P10.		1
Efforts will be made to expedite Pa and Missile Defense (IAMD) archite		ateriel sol	lutions (e	g. Radar	Digital Pro	ocessor,	Communi	cations U	pgrades,	Radars or	n the Net)	to both e	enhance c	apability a	and facili	tate integra	ation into t	he Integ	rated Air

**UNCLASSIFIED** LI C50700 - Patriot Mods 65 Page 2 of 18 P-1 Line #11 Army

				UNCLA	SSIFIED							
Exhibit P-3A, Individual Modification: P	B 2013 Arr	ny							Date: Feb	ruary 2012	2	
Appropriation / Budget Activity / Budge 2032A / BA 3 / BSA 10	t Sub Acti	vity:		<b>tem Nome</b> Patriot Mod					(Modificat	ion Nome ion Title, M MODS - V	lodification	Number <b>)</b> :
Models of Systems Affected: Various		Type I	Modification	n: Various			Re	lated RDT	&E PEs:			
Resource Summary	Prior Years	FY 2011		FY 2013 Base		FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,413.630	56.849	66.925	199.565	-	199.565	258.655	234.737	328.959	329.249	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2,413.630	56.849	66.925	199.565	-	199.565	258.655	234.737	328.959	329.249	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,413.630	56.849	66.925	199.565	-	199.565	258.655	234.737	328.959	329.249	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	lsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
crew interface and communications upgrades.												

LI C50700 - Patriot Mods
Army

UNCLASSIFIED
Page 3 of 18
P-1 Line #11

Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 

2032A / BA 3 / BSA 10 C50700 - Patriot Mods (Modification Title, Modification Number): PATRIOT MODS - Various

								1 71131	O I WIOL	DO - Vario	us	
Models of Systems Affected: Various	Type Modific	<b>ation:</b> Va	rious			Re	elated R	DT&E PE	<b>3</b> :			
	Prio	r Years	FY	2011	FY	2012	FY 20	13 Base	FY 20	13 OCO	FY 201	13 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )
Procurement												

	Prior	Years	FY 2	011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 2013	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )						
Procurement												
RAM Mods <sup>(1)</sup>											_	
A Kits												
Recurring												
Kit Quantity	5,925	537.700	305	29.290	0	9.600	108	11.946	0	0.000	108	11.94
Installation	0	0.000	0	0.000	0	3.400	0	3.556	0	0.000	0	3.55
Training	0	0.000	0	0.000	0	11.000	0	12.046	0	0.000	0	12.04
Training Equipment	0	0.000	0	0.000	0	4.300	0	2.104	0	0.000	0	2.10
Support Equipment	0	0.000	0	0.000	0	2.500	0	9.142	0	0.000	0	9.14
Other	0	0.000	0	4.897	0	6.400	0	15.954	0	0.000	0	15.95
Contractor Logistics Support	0	0.000	0	0.800	0	1.200	0	1.052	0	0.000	0	1.05
Subtotal Recurring		537.700		34.987		38.400		55.800		0.000		55.80
Total, RAM Mods	5,925	537.700	305	34.987	0	38.400	108	55.800	0	0.000	108	55.80
Recapitalization (2)												
A Kits		-									-	
Recurring												
Kit Quantity	8	206.700	1	10.400	1	10.000	1	10.000	0	0.000	1	10.00
Other	0	3.900	0	1.836	0	2.000	0	2.000	0	0.000	0	2.00
Subtotal Recurring		210.600		12.236		12.000		12.000		0.000		12.00
Total, Recapitalization	8	210.600	1	12.236	1	12.000	1	12.000	0	0.000	1	12.00
BCP/TCS (3)											,	
A Kits												
A Kits	27	29.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
A Kits Recurring	27		0	0.000	0	0.000	0	0.000	0	0.000	0	
A Kits Recurring Kit Quantity		0.000						0.000				0.00 0.00 2.10
A Kits  Recurring  Kit Quantity  Engineering Change Orders	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00

**UNCLASSIFIED** LI C50700 - Patriot Mods Page 4 of 18 Army

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:
2032A / BA 3 / BSA 10

P-1 Line Item Nomenclature:
C50700 - Patriot Mods

Modification Nomenclature
(Modification Title, Modification Number):

PATRIOT MODS - Various

Models of Systems Affected: Various Type Modification: Various Related RDT&E PEs:

Models of Systems Affected: Various	Type Modifica	ı <b>tion:</b> Var	ious			Re	lated RD	T&E PE	S:			
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost								
Subtotal Recurring		61.500		6.126		5.600		11.200		0.000		11.20
Total, BCP/TCS	27	61.500	0	6.126	0	5.600	0	11.200	0	0.000	0	11.20
Patriot Modernization <sup>(4)</sup>						,						
A Kits												
Recurring			,		,							
Kit Quantity	0	0.000	0	0.000	4	10.025	79	76.503	0	0.000	79	76.50
Fielding	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Other	0	0.000	0	0.000	0	0.000	0	43.062	0	0.000	0	43.06
Subtotal Recurring		0.000		0.000		10.025		119.565		0.000		119.56
Total, Patriot Modernization	0	0.000	0	0.000	4	10.025	79	119.565	0	0.000	79	119.56
ADA School Upgrades/TADSS <sup>(5)</sup>												
A Kits												
Recurring												
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Training Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.000
Total, ADA School Upgrades/TADSS	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Enhanced Launcher Electronics System (ELES) (6)												
A Kits			,		,							
Recurring			,		,							
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.00
Total, Enhanced Launcher Electronics System (ELES)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Radar Enhancement Phase 4 (7)												
A Kits											-	
Recurring			-								-	
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI C50700 - Patriot Mods Army UNCLASSIFIED
Page 5 of 18

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

**Modification Nomenclature**(*Modification Title, Modification Number*):

2032A / BA 3 / BSA 10

Army

C50700 - Patriot Mods

PATRIOT MODS - Various

Models of Systems Affected: Various Type Modification: Various Related RDT&E PEs:

,	•											
	Prior	Years	FY 2	2011	FY 2	2012	FY 2013	Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )						
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.000
Total, Radar Enhancement Phase 4	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total, All Modifications		809.800		53.349		66.025		198.565		0.000		198.565
Procurement Cost (Procurement + Support)		809.800		53.349		66.025		198.565		0.000		198.565
Total Installation Cost		1,603.830		3.500		0.900		1.000		0.000		1.000
Total Cost (Procurement + Support + Installation)		2,413.630		56.849		66.925		199.565		0.000		199.565

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )
Procurement												
RAM Mods <sup>(1)</sup>												
A Kits												
Recurring												
Kit Quantity	86	9.000	90	9.944	0	10.040	0	11.745	7,599	399.600	14,113	1,028.86
Installation	0	3.400	0	3.808	0	3.678	0	4.470	0	0.000	0	22.312
Training	0	11.500	0	12.704	0	12.290	0	14.145	0	0.000	0	73.68
Training Equipment	0	5.600	0	6.252	0	2.835	0	3.180	0	0.000	0	24.27
Support Equipment	0	8.700	0	9.612	0	9.783	0	10.965	0	0.000	0	50.702
Other	0	15.700	0	15.432	0	15.607	0	15.705	0	0.000	0	89.69
Contractor Logistics Support	0	1.000	0	0.848	0	4.874	0	4.290	0	0.000	0	14.064
Subtotal Recurring		54.900		58.600		59.107		64.500		399.600		1,303.59
Total, RAM Mods	86	54.900	90	58.600	0	59.107	0	64.500	7,599	399.600	14,113	1,303.59
Recapitalization <sup>(2)</sup>												
A Kits												
Recurring												
Kit Quantity	1	10.000	1	10.000	1	10.000	1	10.000	1	98.700	16	375.800
Other	0	2.000	0	2.000	0	4.100	0	6.000	0	7.000	0	30.836
Subtotal Recurring		12.000		12.000		14.100		16.000		105.700		406.63

LI C50700 - Patriot Mods

UNCLASSIFIED
Page 6 of 18

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Modification Nomenclature

2032A / BA 3 / BSA 10 C50700 - Patriot Mods (Modification Title, Modification Number):

PATRIOT MODS - Various

Models of Systems Affected: Various	Type Modification: Various	Related RDT&E PEs:

lodels of Systems Affected: Various	Type Modifica	ation: Var	ious			Re	iated KL	T&E PES	<b>S</b> :			
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	Tot	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cos						
Total, Recapitalization	1	12.000	1	12.000	1	14.100	1	16.000	1	105.700	16	406.63
BCP/TCS (3)												
A Kits											-	
Recurring												
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	27	29.00
Engineering Change Orders	0	2.000	0	2.100	0	1.100	0	1.300	0	0.000	0	6.50
Training Equipment	0	2.205	0	2.100	0	2.000	0	2.000	0	0.000	0	10.40
Other (Software)	0	12.000	0	13.600	0	8.000	0	8.000	0	39.600	0	102.60
Contractor Logistics Support	0	5.000	0	5.000	0	5.000	0	5.000	0	59.400	0	111.32
Subtotal Recurring		21.205		22.800		16.100		16.300		99.000		259.83
Total, BCP/TCS	0	21.205	0	22.800	0	16.100	0	16.300	0	99.000	27	259.83
Patriot Modernization <sup>(4)</sup>												
A Kits						1						
Recurring												
Kit Quantity	92	140.750	0	0.000	0	0.000	0	0.000	0	0.000	175	227.27
Fielding	0	0.000	0	1.840	0	1.760	0	0.000	0	0.000	0	3.60
Other	0	12.600	0	28.597	0	31.100	0	11.946	0	0.000	0	127.30
Subtotal Recurring		153.350		30.437		32.860		11.946		0.000		358.18
Total, Patriot Modernization	92	153.350	0	30.437	0	32.860	0	11.946	0	0.000	175	358.18
ADA School Upgrades/TADSS <sup>(5)</sup>												
A Kits												
Recurring												
Kit Quantity	4	15.400	4	104.400	3	22.592	0	0.000	0	0.000	11	142.39
Training Equipment	0	0.000	0	0.000	0	0.000	0	96.503	0	0.000	0	96.50
Other	0	0.800	0	5.500	0	1.200	0	0.000	0	0.000	0	7.50
		16.200		109.900		23.792		96.503		0.000		246.39
Subtotal Recurring												

LI C50700 - Patriot Mods Army UNCLASSIFIED
Page 7 of 18

Exhibit P-3A, Individual Modification: PB 2013 Army				Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2032A / BA 3 / BSA 10	y:	P-1 Line Item Nomenclature: C50700 - Patriot Mods		Modification Nomenclature (Modification Title, Modification Number):
2002A7 BA 07 BOX 10		CSO700 - 1 atriot mods		PATRIOT MODS - Various
Mandala of Occidence Afficiated Notice	<b>T</b>	Marallift and the second of the second	Dalatad DDT	0 F DF

Models of Systems Affected: Various	Type Modifica	ation: Var	ious			Re	lated RD	T&E PE	s:			
	FY	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )								
A Kits		-										
Recurring		_										
Kit Quantity	0	0.000	0	0.000	45	150.000	17	60.000	0	0.000	62	210.000
Subtotal Recurring		0.000		0.000		150.000		60.000		0.000		210.000
Total, Enhanced Launcher Electronics System (ELES)	0	0.000	0	0.000	45	150.000	17	60.000	0	0.000	62	210.000
Radar Enhancement Phase 4 <sup>(7)</sup>												
A Kits												
Recurring												
Kit Quantity	0	0.000	0	0.000	2	32.000	5	64.000	0	0.000	7	96.000
Subtotal Recurring		0.000		0.000		32.000		64.000		0.000		96.000
Total, Radar Enhancement Phase 4	0	0.000	0	0.000	2	32.000	5	64.000	0	0.000	7	96.000
Total, All Modifications		257.655		233.737		327.959		329.249		604.300		2,880.639
Procurement Cost (Procurement + Support)		257.655		233.737		327.959		329.249		604.300		2,880.639
Total Installation Cost		1.000		1.000		1.000		0.000		1.000		1,613.230
Total Cost (Procurement + Support + Installation)		258.655		234.737		328.959		329.249		605.300		4,493.869

#### Remarks:

LI C50700 - Patriot Mods
Army

UNCLASSIFIED
Page 8 of 18
P-1 Line #11

<sup>(1)</sup>RAM 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 device upgrades associated with the modification and design changes which are essential to stabilize the system at the highest readiness posture available and reduction of O&S.

<sup>(2)</sup> 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.

<sup>(3)</sup> The Battery Command Post/ Tactical Command System (BCP/TCS) 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. Training assets in the form of Laptop and RT3 workstations will be procured to assist with institutional training for TCS and BCP operators. In addition, training BCP shelters will be procured to assist with the institutional training requirements for maintaining the BCP shelters, power generation and Environmental Control Unit (ECU).

<sup>(4)</sup>The Patriot Modernized Manstation (MMS) modification will provide the user with the latest technology: flat screen, color monitor, touch screen, and improved graphical user interface. The Radar Digital Processor (RDP) modification will enable full capability of the AN/TPX-57 IFF to include Mode 5 level 1, 2 and Combat ID implementation. Supports follow-on to counter emerging threats and support growth to netted sensor. The Patriot communications system upgrades will provide a modern IP capability. This permits Patriot to interface directly to DoD netcentric systems including WIN-T, satellite systems, provide troposcatter capabilities within the battalions for Beyond Line of Sight (BLoS) deployments, provide Voice over IP (VoIP), and collaborative capabilities for Patriot permitting worldwide access for Force Operations voice and data exchange and enhanced internal Engagement Operations capabilities as part of integrated air and missile defense.

Exhibit P-3A. Indiv	idual Modification: Pl	3 2013 Army				Date: February 2012	
	dget Activity / Budge		P-1 Line Item No C50700 - Patriot			Modification Nomer (Modification Title, M PATRIOT MODS - V	nclature lodification Number
Models of Systems	Affected: Various	Тур	e Modification: Vari	ous	Related R	DT&E PEs:	
4 ELES Admin Lead <sup>1</sup> 4 Radar Kits ALT 3 ECS ALT:  (6)These modifications (7)Radar Upgrade and	6 months PLT: are necessary to upgrade a Reliability Enhancement Pro	n Lead Time: 18 mont T: 18 months Contra 18 months Contrac PAC-2 Launcher to a F	ns Contract Date: 12/20 ct Date: 12/2014 Deliver t Date: 12/2015 Deliver	ery: 6/2016			
Manufacturer Informati							
Manufacturer Name: vari				Manufacturer Location: va			
Administrative Leadtime	<u> </u>	EV 0040	E)/ 00/10	Production Leadtime (in M	,	EV 2040	E)/ 00/E
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Dec 2010		Dec 2012	Dec 2013	Dec 2014		
Delivery Dates	Jun 2011		Jun 2013	Jun 2014	Jun 2015		
Manufacturer Informati	·			Man foot well-soften Ma			
Manufacturer Name: Var				Manufacturer Location: Va			
Administrative Leadtime	,	EV 0040	EV 0040	Production Leadtime (in M	· · · · · · · · · · · · · · · · · · ·	EV 0040	EV 0047
Dates Contract Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
	Apr 2011 Apr 2012	Apr 2012 Apr 2013	Apr 2013	Apr 2014 Apr 2015	Apr 2015 Apr 2016	Apr 2016 Apr 2017	Apr 2017 Apr 2018
Delivery Dates  Manufacturer Information	' I	Apr 2013	Apr 2014	Apr 2015	Apr 2016	Αρι 2017	Apr 2016
Manufacturer Mame: vari				Manufacturer Location: va	wie		
Administrative Leadtime				Production Leadtime (in M			
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Sep 2011	Sep 2012	Sep 2013	112014	1 1 2013	112010	112017
Delivery Dates	Sep 2011	Sep 2012	Sep 2013				
	on: Patriot Modernization	00p 2012	00p 2010				
Manufacturer Name: vari				Manufacturer Location: va	rious		
Administrative Leadtime				Production Leadtime (in M			
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates		Mar 2012	Mar 2013	Mar 2014	Mar 2015	Mar 2016	
Delivery Dates		Oct 2014	Oct 2015	Jan 2015	Jan 2016	Mar 2017	

LI C50700 - Patriot Mods
Army

UNCLASSIFIED
Page 9 of 18
P-1 Line #11

Exhibit P-3A, Indiv	idual Modification: I	PB 2013 /	Army							Da	i <b>te:</b> Febru	uary 2012		
Appropriation / Bu 2032A / BA 3 / BSA	dget Activity / Budg 10	jet Sub A	ctivity:		<b>ne Item N</b> 00 - Patrio		ature:			(M	odificatio	n Nomeno n Title, Mo MODS - Va	dification i	Number <b>)</b> :
Models of Systems	Affected: Various		Тур	e Modific	ation: Va	rious			Relate	ed RDT&E	PEs:			
Manufacturer Informati	on: ADA School Upgrade	es/TADSS												
Manufacturer Name: vari	ious					Man	nufacturer Loc	ation: various	3					
Administrative Leadtime	(in Months): 6					Prod	duction Leadti	me (in Month	s): 18					
Dates	FY 2011	F	FY 2012		FY 2013		FY 2014		FY 2015	5	FY 20	16	FY 2	:017
Contract Dates							Dec 2013		Dec 201	4	Dec 20	)15	Dec 2	2016
Delivery Dates							Jun 2015		Jun 201	6	Jun 20	)17	Jun 2	2018
Manufacturer Informati	on: Enhanced Launcher	Electronics	s System (El	ES)										
Manufacturer Name: vari	ious					Man	nufacturer Loc	ation: various	;					
Administrative Leadtime	(in Months): 6					Prod	duction Leadti	me (in Month	s): 18					
Dates	FY 2011	F	FY 2012		FY 2013		FY 2014		FY 2015	5	FY 20	16	FY 2	:017
Contract Dates											Dec 20	)15	Dec 2	2016
Delivery Dates											Jul 20	17	Jul 2	:018
Manufacturer Informati	on: Radar Enhancement	Phase 4												
Manufacturer Name: vari	ious					Man	nufacturer Loc	ation: various	3					
Administrative Leadtime	(in Months): 6					Prod	duction Leadti	me (in Month	s): 24					
Dates	FY 2011		FY 2012		FY 2013		FY 2014		FY 2015	5	FY 20	16	FY 2	:017
Contract Dates	T													
Delivery Dates														
								·						
Installation: RAM Mods			Mati	had of Imal	- montation.	various			Inatalla	ation Name:				
Installation. RAIVI Woos			Prior Y	hod of Imple	FY 2		EV	2012		3 Base	EV 204	13 OCO	EV 201	13 Total
			Qty	Total Cost	Qty	Total Cost		Total Cost	Qty	Total Cost	Qty	Total Cost	Qty	Total Cost
Installation Cost			(Each)	(\$ M ) 24.800	(Each)	(\$ M ) 0.00	( <i>Each</i> )	(\$ M )	(Each)	(\$ M )	(Each)	(\$ M ) 0.000	(Each)	(\$ M )
All Prior Years			5,663		0				0		0			
FY 2011			262	1.900	•	0.00			0		0			
FY 2012			0	0.000	305	0.00	-		54		0		54	0.000
FY 2013			0	0.000	0	0.00	-		0		0	-	0	
FY 2014			0	0.000	0	0.00	-		0		0		0	
FY 2015			0	0.000	0	0.00			0		0		0	
FY 2016 FY 2017			0	0.000	0	0.00					0			
F1 201 <i>1</i>		1	"	0.000	١	0.00	,0	0.000		0.000	U	0.000		0.000

LI C50700 - Patriot Mods
Army

UNCLASSIFIED
Page 10 of 18

P-1 Line #11

Exhil	bit P-	3A, lı	ndivi	ub	al Modi	ficat	ion: F	РΒ	2013	Arn	ny													[	Date	e: Febr	uary	/ 2012				
<b>Appr</b> 2032	•			_	et Activ	ity / I	Budg	et	Sub	Acti	vity:		<b>P-1 L</b> C507					ure:						(	Мос	dification dification RIOT N	on T	itle, Mo	odifica		Num	ber <b>)</b> :
Mode	els of	Syst	ems	Αſ	ffected:	Vari	ous				Ty	/pe N	Modifie	catio	n: Va	rious	i					Rela	atec	RDT&	ΕP	PEs:						
Install	ation:	RAM N	Mods								М	ethod	of Impl	emen	tation	vario	ıs					Insta	llatio	on Name								
												r Year				2011			FY 2	2012				Base		FY 20	13 C	СО	F	Y 20	13 Tot	al
Install	ation (	Cost									Qty (Each)		tal Cost		Qty (ach)	Total (\$	Cost	Qty (Eac		Total Co		Qty (Each)		Total Cost		Qty (Each)	To	otal Cost	Qt (Ea			I Cost
To Co	mplete											)	0.000		0		0.000		0	(	0.000		0	0.00	0	C	0	0.000		0		0.000
Total											5,92	5	26.700		305		2.300		0	(	0.000		54	0.00	0	C	0	0.000		54		0.000
											FY	2014			FY 2	2015			FY 2	2016		F	Y 20	17		То Со	ompl	ete		Tr	otal	
Install	ation (	Cost									Qty (Each)		tal Cost		Qty ach)	Total (\$	Cost M)	Qty (Eac		Total Co		Qty (Each)		Total Cost		Qty (Each)	To	otal Cost	Qt (Ea			I Cost
All Pric	or Year	s										)	0.000		0		0.000		0	(	0.000		0	0.00	0	C	0	0.000		5,663		24.800
FY 20											(	)	0.000		0		0.000		0	(	0.000		0	0.00	0	C	0	0.000		262		1.900
FY 20 <sup>-</sup>										(	כ	0.000		0		0.000		0	(	0.000		0	0.00	0	C	0	0.000		305		2.300	
FY 20	13										5	4	0.000		0		0.000		0	(	0.000		0	0.00	0	C	0	0.000		108		0.000
FY 20	14										4	4	0.000		42		0.000		0	(	0.000		0	0.00	0	C	0	0.000		86		0.000
FY 20	15											ס	0.000		48		0.000		42		0.000		0	0.00		C	_	0.000		90		0.000
FY 20												ס	0.000		0		0.000		0		0.000		0	0.00		C		0.000		0		0.000
FY 20												ס	0.000		0		0.000		0		0.000		0	0.00		C		0.000		0		0.000
To Co	mplete											)	0.000		0		0.000		0		0.000		0	0.00		7,599		0.000		7,599		0.000
Total											9	3	0.000		90		0.000		42	(	0.000		0	0.00	0	7,599	9	0.000		14,113		29.000
Install	ation	sched	FY 2			1	- FV	201	40		_	- FV	2013			FY 2	2044			FY 2	045			FY 20	40			FY 20	047			1
	APY	1	2		3 4	1	2		3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
In	5,795	65	65		77 77	_	_	_	0	0	0	0		27	27	27	22	22	22		24		24	+	0	+			0			14,113
	5,731	66	65		65 77	+		_	75	0	0	0		27	27	27	27	22	22		20		24		18		0	1	0			14,113
Inetall	ation:	Pecan	italizat	ion	1						M	othod	of Impl	omon	tation	Vario	116					Ineta	llati	on Name								
motan	ation.	тссар	itanzat	1011	•							r Year			FY		us		FY 2	2012				Base	·	FY 20	13 O	CO	F	Y 20	13 Tot	al
Install	ation (	Cost									Qty (Each)	Tot	tal Cost		Qty ach)		Cost	Qty (Eac	,	Total Co		Qty (Each)		Total Cost		Qty (Each)	_	otal Cost	Qt (Ea	ty	Tota	I Cost
All Pric											· /	3	21.200	(2)	0		0.000	(Edo	0		0.000	(Luon)	0	0.00	0		0	0.000	<u> </u>	0	<u> </u>	0.000
FY 20											-	)	0.000		0		0.000		0	(	0.000		0	0.00	0	C	0	0.000		0		0.000
FY 20	12											)	0.000		1		1.200		0	(	0.000		0	0.00	0	С	0	0.000		0		0.000
LLCS	0700	D : 1	.: _ 1		1-										I INI	) A (	SSIF	IED														
エエビを	11/11/	_ レっも	10t l\/	$\sim$	ıc										11171	. I A:	3.31E													-		

LI C50700 - Patriot Mods Army JNCLASSIFIEI
Page 11 of 18

														OIT		JUII														
Exh	ibit P-	3A, I	ndivi	dual	Modif	fication	on: Pl	3 201	3 Arr	ny													D	ate:	Febr	uary	2012			
	ropria 2A / B/				Activi	ty / B	udge	t Sub	Acti	vity:		<b>P-1</b> L	_			<b>enclat</b> ds	ure:						(/	Modif	icatio	on Tit		clature dification rious	า Num	nber):
Mod	lels of	Sys	tems	Affe	cted:	Vario	us			T	ype	Modifi	catio	n: Va	arious	6					Rel	ated	RDT&E	E PE	s:					
Insta	llation:	Recar	nitalizat	tion						м	ethor	l of Imp	lemen	tation	· Vario	nus.					Inst	allatio	n Name:							
											r Yea				2011			FY 2	2012			2013 E			FY 20	13 00	0	FY 2	013 Tot	 tal
Insta	llation (	Cost								Qty (Each)	То	otal Cost	(E	Qty ach)	Tota	I Cost	Qty (Eac	y	Total C		Qty (Each)		Fotal Cost	(	Qty ach)	Tot	al Cost	Qty (Each)	Tota	al Cost
FY 20	)13										0	0.000		0		0.000		1	(	0.900		0	0.000		(	0	0.000		0	0.00
FY 20	)14										0	0.000		0		0.000		0	(	0.000		1	1.000		(	0	0.000		1	1.00
FY 20	)15										0	0.000		0		0.000		0	(	0.000		0	0.000	1	(	0	0.000		0	0.00
FY 20	)16										0	0.000		0		0.000		0	(	0.000		0	0.000		(	0	0.000		0	0.00
FY 20	)17										0	0.000		0		0.000		0	(	0.000		0	0.000		(	0	0.000		0	0.00
To Co	omplete										0	231.800		0		0.000		0	(	0.000		0	0.000		(	0	0.000		0	0.00
Total											8	253.000		1		1.200		1	(	0.900		1	1.000		(	0	0.000		1	1.00
										FY	2014	<u> </u>		FY 2	2015	Ĭ		FY 2	2016		F	Y 201	17		То Со	omple	te		Total	
Insta	llation (	Cost								Qty (Each)		tal Cost		Qty ach)		I Cost	Qty (Eac		Total C		Qty (Each)	1	Total Cost		Qty ach)		al Cost	Qty (Each)		al Cost
All Pr	ior Year	s								, ,	0	0.000		0		0.000		0	(	0.000		0	0.000		(	0	0.000		8	21.20
FY 20	)11										0	0.000		0		0.000		0	(	0.000		0	0.000		(	0	0.000		0	0.00
FY 20	)12										0	0.000		0		0.000		0	(	0.000		0	0.000		(	0	0.000		1	1.20
FY 20	)13										0	0.000		0		0.000		0	(	0.000		0	0.000		(	0	0.000		1	0.90
FY 20	)14										0	0.000		0		0.000		0	(	0.000		0	0.000		(	0	0.000		1	1.00
FY 20	)15										1	1.000		0		0.000		0	(	0.000		0	0.000		(	0	0.000		1	1.00
FY 20	)16										0	0.000		1		1.000		0	(	0.000		0	0.000		(	0	0.000		1	1.00
FY 20											0	0.000		0		0.000		1		1.000		0	0.000		(	0	0.000		1	1.00
To Co	omplete										0	0.000		0		0.000		0	(	0.000		1	0.000			1	1.000		2	232.80
Total											1	1.000		1		1.000		1		1.000		1	0.000			1	1.000		16	260.10
Insta	llation	Sched																												
	APY	4	FY 2	2011	1 4	4	FY 2		4	1	FY 2	2013	4	4	FY 2	2014	4	4	FY 2	015 3		4	FY 201		4	4	FY 20			Tat
In	AP 1	<b>1</b>	0	-	4	<b>1</b>	0	<b>3</b>	<b>4</b>		0	3	<b>4</b>	<b>1</b>	0	<b>3</b>	0	1	<b>2</b>	ა 1	<b>4</b>	<b>1</b>	<b>2</b>	1	0	<b>1</b>	0		TC 0 1	<b>Tot</b>
Out	8	0	0		_			0	0		0		0	1	0		0			0	0	1	0	0	0	1	0		0 2	
Out	0				, 0	<u>'</u>		0		<u>'</u>		<u> </u>	۰	'			0	'		o	0				<u> </u>	٠,	0			

LI C50700 - Patriot Mods Army UNCLASSIFIED
Page 12 of 18

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Modification Nomenclature

2032A / BA 3 / BSA 10 C50700 - Patriot Mods (Modification Title, Modification Number):
PATRIOT MODS - Various

Models of Systems Affected: Various Type Modification: Various Related RDT&E PEs:

Installation: BCP/TCS	Me	thod of Impl	ementation:	various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	13 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)						
All Prior Years	0	1,324.130	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	1,324.130	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)						
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1,324.130
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1,324.130

LI C50700 - Patriot Mods Army UNCLASSIFIED
Page 13 of 18

Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Modification Nomenclature
2032A / BA 3 / BSA 10	C50700 - Patriot Mods	(Modification Title, Modification Number):
		PATRIOT MODS - Various

Models of Systems Affected: Various Type Modification: Various Related RDT&E PEs:

Installation: BCP/TCS Method of Implementation: various Installation Name:

#### Installation Schedule

			FY 2	2011			FY 2	2012			FY 2	013			FY 2	2014			FY 2	2015			FY 2	016			FY 2	017			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	27	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	27
Out	27	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	27

Installation: Patriot Modernization	Me	thod of Impl	ementation:	various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	37	0.000	0	0.000	0	0.000	0	0.000	0	0.000	37	0.000
FY 2013	0	0.000	72	0.000	0	0.000	0	0.000	0	0.000	72	0.000
FY 2014	0	0.000	0	0.000	65	0.000	0	0.000	0	0.000	65	0.000
FY 2015	0	0.000	0	0.000	0	0.000	1	0.000	0	0.000	1	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
	0		0		-		0		0		0	

LI C50700 - Patriot Mods Army UNCLASSIFIED
Page 14 of 18

P-1 Line #11

tal (\$	C50  Modi  d of Im  4  fotal Cos (\$M)  0.0  0.0  7  2013  3 0	difica Imple 	O - F  ation  Q  (Ea	r: Vation: FY: ty ch) 0 72  1 4 0	FY 2	S S S S S S S S S S S S S S S S S S S	Qty (Each		FY 2	0.000 0.000 0.000 0.000 0.000	Installation FY Oty (Each) 0 0 1	0.0 0.0 FY 2	(Mod. PATF	To CO Qty (Each)	Comple Tot	te al Cost \$ M ) 0.000 0.000  FY 20	Qty (Each	Tot	al Total	
1 c	d of Im  4  total Cos (\$ M )  0.0  0.0  7  2013  3  0  0  0  0  0  0  0  0  0  0  0  0		Q (Ea	(ation: FY 2 ty (ch) 0 0 72 1 4 0	FY 2	Cost (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	4 11	0 0 0 65 1	FY 2	0.000 0.000 0.000 0.000 0.000	Installation FY Oty (Each) 0 0 1	2017  Total Cos (\$ M)  0.0  0.0  FY 2	e: t 0000 0000 0000	To C Qty (Each)	Tot (6	0.000 0.000 0.000 FY 20	(Each	0 0 175	Total (\$ )	<i>M)</i> 0.00
20 1 c	(\$ M) 0.0 0.0 0.0 7 2013 3 0 (0	0.000 0.000 0.000 0.000	4 0 0	FY 2 ty (ch) 0 72  1 4 0	FY 2	Cost (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	4 11	0 0 0 65 1	FY 2	0.000 0.000 0.000 0.000 0.000	FY Qty (Each) 0 0 1	2017  Total Cos (\$ M)  0.0  0.0  FY 2	t (1000 (100) (1000 (100) (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (100) (1000 (1000 (1000 (1000 (1000 (1000 (1000 (100) (1000 (100) (1000 (1000 (100) (1000 (1000 (100) (1000 (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (100) (1000 (100) (100) (1000 (100) (100) (1000 (100) (100	Qty (Each)	Tot (6	0.000 0.000 0.000 FY 20	(Each	0 0 175	Total (\$ )	<i>M)</i> 0.00 0.00
20 1 c	(\$ M) 0.0 0.0 0.0 7 2013 3 0 (0	0.000 0.000 0.000 0.000	4 0 0	FY 2 ty (ch) 0 72  1 4 0	FY 2	Cost (1) (0.000	4 11	0 0 0 65 1	FY 2	0.000 0.000 0.000 0.000 0.000	FY Qty (Each) 0 0 1	2017  Total Cos (\$ M)  0.0  0.0  FY 2	t (1000 (100) (1000 (100) (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (100) (1000 (1000 (1000 (1000 (1000 (1000 (1000 (100) (1000 (100) (1000 (1000 (100) (1000 (1000 (100) (1000 (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (1000 (100) (100) (1000 (100) (100) (1000 (100) (100) (1000 (100) (100	Qty (Each)	Tot (6	0.000 0.000 0.000 FY 20	(Each	0 0 175	Total (\$ )	<i>M)</i> 0.00
20 1 c	(\$ M) 0.0 0.0 0.0 7 2013 3 0 (0	0.000 0.000 0.000 0.000 0.000	4 0 0	1 4	FY 2	0.000 0.000 0.000 0.000	4 11	0 0 0 65 1	FY 2	0.000 0.000 0.000 0.000 0.000	Qty (Each) 0 0 1 1 4 4	Total Cos (\$ M) 0.0 0.0 FY 2	000	Qty (Each)	Tot (6	0.000 0.000 0.000 FY 20	(Each	0 0 175	Total (\$ )	<i>M)</i> 0.00
20	0.0 0.0 0.0 7 <b>2013</b> 3 0 0	0.000 0.000 0.000 0.000	<b>4</b> 0 0	0 0 72 1 4 0	FY 2 2 11	0.000 0.000 0.000 0.000	<b>4</b> 11	0 0 65 <b>1</b>	FY 2 2 19	0.000 0.000 0.000 0.000 0.000	1	0.0 0.0 0.0 FY 2	000	4	0 0 0	0.000 0.000 0.000 FY 20	017	0 0 175		0.00
	2013 3 0 (0	3 3 0 0	0	72 1 4 0	<b>2</b> 11	0.000	11	65 <b>1</b>	FY 2 2 19	0.000 0.000 3 19	4	0.0 0.0 FY 2	016	4	1	0.000 0.000 FY 20 2	017	175	тс	0.00
	<b>2013</b> 3 0 0	3 3 0 0	0	<b>1</b> 4 0	<b>2</b> 11	014 3 11	11	<b>1</b>	FY 2 2 19	<b>3</b> 19	4	FY 2	016	4	1	FY 20	017		тс	0.00
	3 0 0	0 0	0	0	<b>2</b> 11	<b>3</b>	11	15	<b>2</b> 19	<b>3</b>		1 2	3			2		4	TC	
	3 0 0	0 0	0	0	<b>2</b> 11	<b>3</b>	11	15	<b>2</b> 19	<b>3</b>		1 2	3			2		4	тс	
l c	0 0	0	0	0	11	11	11	15	19	19							3	4	тс	
l c	0 (	0	0	0					$\overline{}$		19	10 16								Tot
l c					4	11	11	11	15			19 16	15	15	0	1	0	0	0	17
	d of In	Imple	ment	otion					13	19	19	19 19	16	15	15	0	1	0	0	17
	a of In	ımpiei	ment								1									
						s ———		<b>5</b> )/ 0/	240			ation Nam	e:	<b>5</b> )/ 0	040.00					_
_	ars otal Cos	4	Q	FY 2	2011 Total	24	Qty	FY 20	U12 Total C			13 Base		FY 2	013 OC	al Cost			Total	
	(\$ M )		(Ea		(\$ A		(Eacl		(\$ M		<b>Qty</b> (Each)	(\$ M )		(Each)		\$ M )	Qty (Eacl			M)
	0.0	0.000		0		0.000		0	(	0.000	0	0.0	000		0	0.000		0		0.00
	0.0	0.000		0		0.000		0	(	0.000	0	0.0	000		0	0.000		0		0.00
	0.0	0.000		0		0.000		0	(	0.000	0		000		0	0.000		0		0.00
		0.000		0		0.000		0		0.000	0				0	0.000		0		0.00
		0.000		0		0.000		0		0.000	0				0	0.000		0		0.00
_																				0.00
_		0.000		0		0.000				0.000										0.00
_																				0.00
_																				0.00
_	0.0	0.000		0		0.000		0	(	0.000	0	0.0	000		0	0.000		0		0.00
_	4			FY 2	2015			FY 20	016		FY	2017		To C	omple	te			 al	
tal	otal Cos		Q: (Fa	ty	Total		Qty (Fac)		Total Co		Qty	Total Cos		Qty	Tot	al Cost			Total	
Ψ.		0.000	(La	0	(\$1	0.000	(Laci	0		0.000	(Lacii)	<u> </u>			0			0	(4)	0.00
_	0.0	0.000		0		0.000		0	(	0.000	0	0.0	100		0	0.000		0		0.00
tal	0.0 0.0 0.0 0.0 0.0 4 Fotal Cos (\$ M)	0.000 0.000 0.000 0.000 0.000	Q: (Ea	0 0 0 <b>FY 2</b> ty (ch)	2015 Total (\$ A	0.000 0.000 0.000 0.000 0.000	Qty (Eacl	0	016 Total Cc (\$ M	0.000 0.000 0.000 0.000 0.000 0.000	Qty (Each)	0.6 0.6 0.6 0.6 0.7 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	1000 1000 1000 1000 1000 1000 1000 100	To C Qty (Each)	0 0 0 0 0	Tot	0.000 0.000 0.000 0.000 0.000  0.000  Total Cost (\$ M ) 0.000	0.000 0.000 0.000 0.000 0.000  plete Total Cost Qty	0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0	0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 V 0.000

LI C50700 - Patriot Mods Army UNCLASSIFIED
Page 15 of 18

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A / BA 3 / BSA 10

P-1 Line Item Nomenclature:
C50700 - Patriot Mods

Modification Nomenclature
(Modification Title, Modification Number):
PATRIOT MODS - Various

Models of Systems Affected: Various Type Modification: Various Related RDT&E PEs:

Installation: ADA School Upgrades/TADSS	М	ethod of Imp	ementation	: various			Installa	tion Name:				
	FY	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	mplete	Tc	otal
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )
FY 2012		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014		3 0.000	0	0.000	0	0.000	0	0.000	0	0.000	3	0.000
FY 2015		1 0.000	3	0.000	0	0.000	0	0.000	0	0.000	4	0.000
FY 2016		0.000	1	0.000	3	0.000	0	0.000	0	0.000	4	0.000
FY 2017		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total		4 0.000	4	0.000	3	0.000	0	0.000	0	0.000	11	0.000

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
In	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	2	1	1	0	2	1	0	0	0	0	0	11
Out	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	2	1	1	0	2	1	0	0	0	0	11

Installation: Enhanced Launcher Electronics System (ELES)	Met	thod of Impl	ementation:	various			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI C50700 - Patriot Mods Army UNCLASSIFIED
Page 16 of 18

														UN	O L	LASSIF	חשוי														
Exhib	it P	3A, I	ndivi	dual	Modi	ficati	on: P	B 20	13 Arr	ny													D	ate:	Febi	ruary	2012				
<b>Appr</b> 2032/					Activ	ity / E	Budge	t Sul	o Acti	vity:		1		Item N - Patric		<b>mencla</b> Mods	ture:			_			(/	/lodi	ficati	on Tit	omeno le, Mo S - Va	difica	ation	Numl	ber):
Mode	ls of	f Sys	tems	Affe	cted:	Vario	ous			T	ype	Modif	icati	ion: Va	ario	ous					Rela	ted	RDT&E	PE	s:						
Installa	ation:	Enhar	nced La	unche	er Elect	tronics	Systen	ı (ELE	(S)	М	etho	d of Im	oleme	entation	: Va	rarious					Insta	llatio	n Name:								
									<u> </u>	FY	201	4		FY 2	20	15		FY 2	2016		F	Y 201	7		То С	omple	te		To	otal	
Installa	ation	Cost								Qty (Each)		otal Cost		Qty (Each)	_	Total Cost	Qty (Eac	,	Total (		Qty (Each)		Total Cost		Qty Each)	Total	al Cost		Qty ach)		Cost
All Prio	r Yea	rs									0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	1										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	2										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	3										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	4										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	5										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	6										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	7										0	0.00	0	0		0.000		0		0.000		36	0.000			0	0.000		36		0.000
To Cor	nplete	)									0	0.00	0	0		0.000		0		0.000		0	0.000		2	26	0.000		26		0.000
Total											0	0.00	0	0		0.000		0		0.000		36	0.000		2	26	0.000		62		0.000
Installa	ation	Sched	ule																												
			FY 2	011			FY 2	2012			FY	2013				FY 2014			FY	2015			FY 201	6			FY 20	17			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1		2 3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	-	0	0	0	0	0	0	0	0	0	(	0 0	(	0 0		0 0	0	C	0		0 0	0	0	0	9	9	9	9	9	17	62
Out	-	0	0	0	0	0	0	0	0	0	(	0 0	(	0 0		0 0	0	C	0		0 0	0	0	0	0	9	9	9	9	26	62
																					1										
Installa	ation:	Radai	Enhan	ceme	nt Pha	se 4							oleme	entation			1						n Name:				_				
											r Yea	ars otal Cost		FY 2	_	111 Total Cost	04	FY 2	2012 Total (	N4	FY 2 Qty	013 E	Sase Total Cost			013 OC	al Cost		FY 201		Cost
Installa	ation	Cost								<b>Qty</b> (Each)	'	(\$ M )		<b>Qty</b> (Each)		(\$ M )	Qty (Eac		(\$ N		(Each)		(\$ M )		<b>Qty</b> Each)		\$ M)		Qty ach)		M)
All Prio	r Yea	rs									0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	1										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	2										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	3										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	4										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	5										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000		0		0.000
FY 201	6										0	0.00	0	0		0.000		0		0.000		0	0.000			0	0.000	<u> </u>	0		0.000
FY 201	7										0	0.00	0	0	1	0.000		0		0.000		0	0.000			0	0.000	1	0		0.000

LI C50700 - Patriot Mods Army UNCLASSIFIED
Page 17 of 18

Exh	ibit P-	3A, lı	ndivid	ual N	/lodifi	catio	n: PB	2013	3 Arn	ny											Dat	t <b>e:</b> Febr	uary	2012			
			/ <b>Budg</b> 3SA 10		ctivit	y / Bι	udget	Sub	Acti	vity:	I				lomenclat t Mods	ure:					(Mo	dification dification TRIOT N	on Tit	le, Mod	dificatio	n Nur	nber):
Mod	lels of	Syst	tems A	Affec	ted: \	/ariou	ıs			Ту	ре Мос	lific	atior	ı: Va	rious				Relat	ed RDT	&E	PEs:					
Insta	llation:	Radar	Enhanc	emen	t Phase	e 4				Me	thod of li	mple	ementa	ation:	: various				Install	ation Nan	ne:						
										Prior	Years			FY 2	2011		FY 2	2012	FY 20	13 Base		FY 20	13 OC	:0	FY 2	013 To	otal
Insta	llation	Cost								Qty (Each)	Total Co		Qt (Eac		Total Cost (\$ M)	Qt (Ead		Total Cost (\$ M)	Qty (Each)	Total Co		Qty (Each)		al Cost	Qty (Each)		tal Cost (\$ M)
To C	omplete									C	0.	.000		0	0.000		0	0.000	(	0	000	(	0	0.000		0	0.00
Total										C	0.	.000		0	0.000		0	0.000	(	0	000	(	0	0.000		0	0.00
										FY	2014			FY 2	2015		FY 2	2016	FY	2017		To Co	omple	te		Total	
Insta	llation	Cost								Qty (Each)	Total Co	st	Qt; (Eac	у	Total Cost	Qt (Eac	у	Total Cost	Qty (Each)	Total Co	st	Qty (Each)	Total	al Cost	Qty (Each)	To	tal Cost
All Pi	ior Yea	s								C	0.	.000		0	0.000		0	0.000	(	0	000	(	0	0.000		0	0.00
FY 2	011									C	0.	.000		0	0.000		0	0.000	(	0	000	(	0	0.000		0	0.00
FY 2	012									C	0.	.000		0	0.000		0	0.000	(	0	000	(	0	0.000		0	0.00
FY 2	013									C	0.	.000		0	0.000		0	0.000	(	0	000	(	0	0.000		0	0.00
FY 2	014									C	0.	.000		0	0.000		0	0.000	(	0	000	(	0	0.000		0	0.00
FY 2	015									O	0.	.000		0	0.000		0	0.000	(	0	000	(	0	0.000		0	0.00
FY 2	016									0	0.	.000		0	0.000		0	0.000	(	0	000	(	0	0.000		0	0.00
FY 2	017									C	0.	.000		0	0.000		0	0.000	(	0.	000	(	0	0.000		0	0.00
To C	omplete									C	0.	.000		0	0.000		0	0.000	(	0.	000	7	7	0.000		7	0.00
Total										C	0.	.000		0	0.000		0	0.000	(	0.	000		7	0.000		7	0.00
Insta	llation	Sched	ule																								
		. 1	FY 20			. [	FY 20				FY 2013	_		. 1	FY 2014			FY 2015			2016		. [	FY 20		╣	
	APY	1	2	3	4	1		3	4	1	2 3	_	4	1	2 3	4	1	2 3		1 2	3	4	1	2	3 4	TC	
In .	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0		0 0		0 0	_	0 0	0	0			7
Out	-	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	7

LI C50700 - Patriot Mods Army

UNCLASSIFIED
Page 18 of 18

P-1 Line #11

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 3: Modification of Missiles / BSA 10:

C61700 - ITAS/TOW Mods

Modifications

ID Code (A=Service Ready, B=Not Service Ready) :		Prograr	n Elements f	or Code B It	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	13.281	13.577	-	-	-	-	-	-	-	0.000	26.858
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	13.281	13.577	-	-	-	-	-	-	-	0.000	26.858
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	13.281	13.577	-	-	-	-	-	-	-	0.000	26.858
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **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'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).

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	13.281	13.577	-	-	-

#### Justification:

There are no FY 2013 Base Procurement dollars.

UNCLASSIFIED
Page 1 of 1 P-1 Line #12

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 3: Modification of Missiles / BSA 10:

C67500 - MLRS Mods

Modifications

ID Code (A=Service Ready, B=Not Service Ready) :		Prograr	n Elements f	or Code B Ite	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	367.063	8.170	8.236	2.466	-	2.466	11.571	86.333	62.024	10.705	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	367.063	8.170	8.236	2.466	-	2.466	11.571	86.333	62.024	10.705	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	367.063	8.170	8.236	2.466	-	2.466	11.571	86.333	62.024	10.705	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	22.513	1.008	1.031	1.064	-	1.064	1.083	1.087	1.076	1.095	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

Army

The Multiple Launch Rocket and Missile System (MLRS) is a full spectrum, combat proven, all weather, 24/7 lethal and responsive, Precision Strike weapon system that is organic/assigned to Fires Brigades supporting Brigade Combat Teams. The MLRS launcher provides critical missile precision strike, operational shaping fires, counterfire, and close support destructive and suppressive fires. The launcher is complimented by the MLRS Family of Munitions (MFOM) to include the Guided Multiple Launch Rocket System (GMLRS), and the Army Tactical Missile System (ATACMS) Family of Munitions (AFOM), capable of engaging targets up to a range of 300 kilometers.

Second	Secondary Distribution		ı	FY 2011		FY 2012	2	FY 201 Base	-	FY 201 OCO	-	FY 20 <sup>7</sup> Tota		FY 20	)14	FY 20	)15	FY 2	016	FY 2	2017
Army Active	Quantity	tity		-					-	-		-		-		-		-			-
	Total Ob	ligation Authority		8	3.170		8.236		2.434		- 2.434 9.28		9.287	287 71.539			61.176		10.705		
Army National	Quantity				-		-		-		-	-		-			-		-		-
Guard	Total Ob	ligation Authority			-		-		0.032		-		0.032		2.284		14.794		0.848		-
Ite	Item Schedule			Р	rior Year	's		FY 2011			FY 2012		FY	/ 2013 Ba	ise	FY	2013 O	co	FY	2013 To	tal
Item Nomeno	clature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
Multiple Launch R System (MLRS) Modifications - 00		P3A		-	-	367.063	-	-	8.170	-	-	8.236	-	-	2.466	-	-	-	-	-	2.466
Total Gross/Wea System Cost	ipon					367.063			8.170			8.236			2.466			-			2.466

**UNCLASSIFIED** LI C67500 - MLRS Mods 83 Page 1 of 22 P-1 Line #13

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity	P-1 Line Item Nomenclature:	

2032A: Missile Procurement, Army / BA 3: Modification of Missiles / BSA 10:

Modifications

C67500 - MLRS Mods

ID Code (A=Service Read	Code (A=Service Ready, B=Not Service Ready): Program Elements for Code B Ite						e B Items	tems: Other Related Program Elements:												
			FY 2014		FY 2015		FY 2016		FY 2017		To Complete			Total						
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
Multiple Launch Rocket System (MLRS) Modifications - 000	P3A		-	-	11.571	-	-	86.333	-	-	62.024	-	-	10.705	-	-	-	-	-	-
Total Gross/Weapon System Cost					11.571			86.333			62.024			10.705			-			-

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

#### Justification:

FY 2013 Base procurement dollars in the amount of \$2.466 million procures Enhanced Command and Control (C2), M993A1 Carrier Upgrades, Obsolescence Mitigation/Engineering Change Proposal Integration to include measures for other hardware and software required in support of launcher upgrades. The MLRS product improvement program provides funding for integration efforts to the MLRS necessary for obsolescence mitigation, reliability improvements, incorporation of system hardware and software technologies.

				UNCLA	SSILIED							
Exhibit P-3A, Individual Modification: P	B 2013 Arr	ny							Date: Feb	ruary 2012	2	
Appropriation / Budget Activity / Budge 2032A / BA 3 / BSA 10	t Sub Acti	vity:		tem Nome MLRS Mod		Modification Nomenclature (Modification Title, Modification Number): Multiple Launch Rocket System (MLRS) Modifications - 000						
Models of Systems Affected: M270A1		Type I	Modificatio	n: .			Re	lated RDT	&E PEs:			
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	367.063	8.170	8.236	2.466	-	2.466	11.571	86.333	62.024	10.705	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	367.063	8.170	8.236	2.466	-	2.466	11.571	86.333	62.024	10.705	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	367.063	8.170	8.236	2.466	-	2.466	11.571	86.333	62.024	10.705	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Description:</b> Modifications of the MLRS System												

LI C67500 - MLRS Mods
Army

UNCLASSIFIED
Page 3 of 22
P-1 Line #13

Exhibit P-3A, Individual Modification: PB 2013 ArmyAppropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:Modification Nomenclature2032A / BA 3 / BSA 10(Modification Title, Modification Number):Multiple Launch Rocket System (MLRS)<br/>Modifications - 000

Models of Systems Affected: M270A1	Type Modifica	ation: .				Re	lated RD	T&E PE	<b>S</b> :			
	Prior	Years	FY	2011	FY 2	2012	FY 201	3 Base	FY 201	3 ОСО	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost	Qty (Each)	Total Cost
Procurement												
Inactive Mods												
A Kits												
Recurring												
Kit Quantity	0	291.700	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		291.700		0.000		0.000		0.000		0.000		0.00
Total, Inactive Mods	0	291.700	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
M993A1 <sup>(1)</sup>								,				,
A Kits												
Recurring												
Kit Quantity	0	4.233	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Installation Kits	0	0.000	0	0.300	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		4.233		0.300		0.000		0.000		0.000		0.00
Total, M993A1	0	4.233	0	0.300	0	0.000	0	0.000	0	0.000	0	0.00
Global Positioning System (GPS) Upgrades (2)												
A Kits												
Recurring												
Installation Kits	0	0.230	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.230		0.000		0.000		0.000		0.000		0.00
Total, Global Positioning System (GPS) Upgrades	0	0.230	0	0.000	0	0.000	0	0.000	0	0.000	0	0.00
Obsolescence Mitigations/ECP Reliability Intg (3)								,				
A Kits												
Recurring												
Equipment	0	30.500	0	3.270	0	1.544	0	0.536	0	0.000	0	0.53
Subtotal Recurring		30.500		3.270		1.544		0.536		0.000		0.53
Total, Obsolescence Mitigations/ECP Reliability Intg	0	30.500	0	3.270	0	1.544	0	0.536	0	0.000	0	0.53
Auxiliary Power Unit/Environmental Control Unit (4)												,

LI C67500 - MLRS Mods Army UNCLASSIFIED
Page 4 of 22

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / BA 3 / BSA 10

P-1 Line Item Nomenclature:

C67500 - MLRS Mods

(Modification Nomenclature (Modification Title, Modification Number):

Multiple Launch Rocket System (MLRS)

Modifications - 000

Models of Systems Affected: M270A1	Type Modifica	ation:			·	Re	lated RD	T&E PE	<b>s</b> :			
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Co
A Kits												
Recurring												
Installation Kits	0	1.800	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Equipment	0	9.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Other	0	1.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal Recurring		12.500		0.000		0.000		0.000		0.000		0.0
Total, Auxiliary Power Unit/Environmental Control Unit	0	12.500	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Enhanced Command and Control (C2) (5)												
A Kits												
Recurring												
Equipment	125	13.200	37	3.900	54	5.800	9	0.966	0	0.000	9	0.9
Subtotal Recurring		13.200		3.900		5.800		0.966		0.000		0.9
Total, Enhanced Command and Control (C2)	125	13.200	37	3.900	54	5.800	9	0.966	0	0.000	9	0.9
Improved Armored Cab (IAC) (6)												
A Kits												
Recurring		_										
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.0
Total, Improved Armored Cab (IAC)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Fire Control System (FCS) Upgrade (7)												
A Kits												
Recurring												
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.0
Total, Fire Control System (FCS) Upgrade	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.0
Drivers Vision Enhancements(DVE) <sup>(8)</sup>										,		
A Kits												

LI C67500 - MLRS Mods
Army
P

UNCLASSIFIED
Page 5 of 22

P-1 Line #13

Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2032A / BA 3 / BSA 10 C67500 - MLRS Mods (Modification Title, Modification Number): Multiple Launch Rocket System (MLRS) Modifications - 000 Models of Systems Affected: M270A1 Type Modification: . Related RDT&E PEs: FY 2011 **Prior Years** FY 2012 **FY 2013 Base** FY 2013 OCO FY 2013 Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost Total Cost Financial Plan** (Each) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (Each) (\$ M) Recurring 6.800 0.000 0 0.000 0.000 0 0.000 0 0.000 Equipment 6.800 0.000 0.000 0.000 0.000 0.000 Subtotal Recurring Total, Drivers Vision Enhancements(DVE) 6.800 0.000 0.000 0.000 0.000 0.000 359.163 7.470 7.344 1.502 0.000 1.502 Total. All Modifications 7.344 359.163 7.470 1.502 0.000 1.502 Procurement Cost (Procurement + Support) 7.900 0.700 0.892 0.964 0.000 0.964 Total Installation Cost 8.170 8.236 2.466 0.000 2.466 367.063 Total Cost (Procurement + Support + Installation) FY 2014 FY 2015 FY 2016 FY 2017 To Complete Total **Total Cost Total Cost** Total Cost **Total Cost** Total Cost **Total Cost** Qtv Qtv Qty Qty **Financial Plan** (Each) (\$ M) **Procurement** Inactive Mods A Kits Recurring 0 0.000 0 0.000 0.000 0.000 Kit Quantity 0 0.000 291,700 Subtotal Recurring 0.000 0.000 0.000 0.000 0.000 291.700 Total. Inactive Mods 0.000 0.000 0 0.000 0.000 0.000 291.700 M993A1 (1) A Kits Recurring 0 0.000 0 0.000 0 0.000 0.000 0.000 0 4.233 Kit Quantity 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.300 Installation Kits 0.000 0.000 0.000 0.000 0.000 4.533 Subtotal Recurring 0.000 0.000 0.000 0.000 0.000 4.533 Total, M993A1 Global Positioning System (GPS) Upgrades (2)

**UNCLASSIFIED** 

88

P-1 Line #13

A Kits

LI C67500 - MLRS Mods

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / BA 3 / BSA 10

P-1 Line Item Nomenclature:

C67500 - MLRS Mods

(Modification Nomenclature (Modification Title, Modification Number):

Multiple Launch Rocket System (MLRS)

Modifications - 000

Models of Systems Affected: M270A1	Type Modifica	/pe Modification: Related RDT&E PEs:												
	FY:	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Cor	nplete	То	tal		
Financial Plan	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )		
Recurring														
Installation Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.230		
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		0.230		
Total, Global Positioning System (GPS) Upgrades	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.23		
Obsolescence Mitigations/ECP Reliability Intg (3)														
A Kits														
Recurring														
Equipment	0	7.576	0	7.270	0	4.845	0	0.425	0	0.000	0	55.966		
Subtotal Recurring		7.576		7.270		4.845		0.425		0.000		55.966		
Total, Obsolescence Mitigations/ECP Reliability Intg	0	7.576	0	7.270	0	4.845	0	0.425	0	0.000	0	55.966		
Auxiliary Power Unit/Environmental Control Unit (4)														
A Kits														
Recurring														
Installation Kits	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.800		
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	9.500		
Other	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	1.200		
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		12.500		
Total, Auxiliary Power Unit/Environmental Control Unit	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	12.500		
Enhanced Command and Control (C2) (5)														
A Kits														
Recurring														
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	225	23.866		
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		23.866		
Total, Enhanced Command and Control (C2)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	225	23.86		
Improved Armored Cab (IAC) <sup>(6)</sup>														
A Kits														
Recurring														

LI C67500 - MLRS Mods Army UNCLASSIFIED
Page 7 of 22

Exhibit P-3A, Individual Modification: PB 2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity: 2032A / BA 3 / BSA 10	P-1 Line Item Nomenclature: C67500 - MLRS Mods	Modification Nomenclature (Modification Title, Modification Number): Multiple Launch Rocket System (MLRS) Modifications - 000

Models of Systems Affected: M270A1	Type Modifica	Type Modification: Related RDT&E PEs:										
	FY	2014	FY 2015		FY 2	2016	FY 2	2017	To Complete		То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)								
Equipment	13	3.851	57	16.642	61	17.792	16	4.652	78	22.255	225	65.192
Subtotal Recurring		3.851		16.642		17.792		4.652		22.255		65.192
Total, Improved Armored Cab (IAC)	13	3.851	57	16.642	61	17.792	16	4.652	78	22.255	225	65.192
Fire Control System (FCS) Upgrade (7)												,
A Kits												
Recurring												
Equipment	0	0.000	57	62.057	33	36.936	3	3.345	132	131.458	225	233.796
Subtotal Recurring		0.000		62.057		36.936		3.345		131.458		233.796
Total, Fire Control System (FCS) Upgrade	0	0.000	57	62.057	33	36.936	3	3.345	132	131.458	225	233.796
Drivers Vision Enhancements(DVE) <sup>(8)</sup>												,
A Kits												
Recurring												
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	6.800
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		6.800
Total, Drivers Vision Enhancements(DVE)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	6.800
Total, All Modifications		11.427		85.969		59.573		8.422		153.713		694.583
Procurement Cost (Procurement + Support)		11.427		85.969		59.573		8.422		153.713		694.583
Total Installation Cost		0.144		0.364		2.451		2.283		4.667		20.36
Total Cost (Procurement + Support + Installation)		11.571		86.333		62.024		10.705		158.380		714.948

#### Remarks:

LI C67500 - MLRS Mods
Army

UNCLASSIFIED
Page 8 of 22
P-1 Line #13

<sup>(1)</sup>Subsequent to the fielding of the M270A1 Launcher, the vehicle subsystem, the M993A1 Carrier has seen the need for several reliability changes. In order to reduce system failures and improve overall reliability, modifications are required to upgrade the engine compartment fire sensor, windshield washer check valve, engine spin-on oil filter, improved secondary drive generator belt, Improved Electronics Distribution Box (IEDB) cold start improvements, primary generator arcing, APU wiring harness, relay replacement, and circuit breaker protection. These modifications are planned for application to 225 M993A1 Carriers.

<sup>(2)&</sup>lt;sub>N/A</sub>

<sup>(3)</sup> Obsolescence dictates the replacement of many launcher components. Because of rapid electronic obsolescence, this program provides modification plans for further replacement of launcher electronic components. Circuit cards in the Line Replacement Units are rapidly approaching obsolescence. Funding on this program is necessary to procure updated components, modification kits, and the installation efforts to update M270A1 systems which can no longer find components necessary to replace parts that are unavailable due to obsolescence. This rapid advancing technology within the commercial computer

Exhibit P-3A, Indivi	dual Modification: Pl	3 2013 Army				Date: February 2012	2
Appropriation / Buc 2032A / BA 3 / BSA	<b>Iget Activity / Budge</b> 10	t Sub Activity:	P-1 Line Item Noi C67500 - MLRS M			Modification Nome (Modification Title, M Multiple Launch Roo Modifications - 000	Modification Number):
Models of Systems	Affected: M270A1	Туре	Modification:		Related RD	T&E PEs:	
approved components of (4) An Auxiliary Power U at the M270A1 Initial Opsubsystem and the carripotential launch operating power and measures fo (5) The current on-board threat. This requirement Field Artillery C2 nodes This enhancement will of (6) The Improved Armore protection level afforded technologies to protect Integration will commen delivery occurring in FY (7) The Fire Control Systis capable of adding oth becomes obsolete in the Development of the FCS FY2016. Installation of (8) The Drivers Vision Er	marking up the Power Personit/Environmental Control Uperational Test and Evaluation subsystem facilitating a con, there is a need to provious reducing heat within the confire control system for the later results in increased operation close proximity to launch consist of adding High Frequency (IAC) effort fulfills and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in against ballistic projectiles and the weapon system crew in a system of the weapon s	onal Computer 2 Executive and Computer 2 Executive and (APU/ECU) system had fon (IOTE). Significant element to provide auxiliary of the environmental control of the above and the environmental control of the environment	e Processor (PPC2EP) of as been requested by the ectric power distribution, electrical power to the late for crew comfort and efficiency of the necessary Enhanced bility to reduce the fire sun strikes, and be capable for C2 components. The entitle of the necessary Enhanced bility to reduce the fire sun strikes, and be capable for C2 components. The entitle of the necessary Enhanced for the fire sun strikes, and be capable for C2 components. The entitle of the necessary Enhanced for the fire sun strikes, and be capable for the fire sun strikes. A production award out the fire sun strikes and the fire sun strikes are sun strikes. A production award out the fire sun strikes are sun sun strikes. A production award out the fire sun strikes are sun strikes. A production award out the fire sun strikes are sun strikes. A production award out the fire sun strikes are sun strikes, and be capable for the fire sun strikes, and the fire sun strikes are sun strikes.	scence issues particularly ward has partly necessitated a user as a direct result of the management, and power stoucher vehicle. In addition, ciency. Digitization equipmer Command and Control (C2) pport footprint, and reduce the of integrating with Joint assessme level of crew protectical evolving threats. The IAC of sourcement funding starting in continue for 36 months. A pron of the IAC will begin in 40 electronic components. The architecture. The FCS-U will for 225 FCS-U sets of hards ensor and driver's display the fog, or darkness. Troops extends	a fire control system change Manpower and Personnel rage problems have occurring to the cab of the M270/nt changes have added additional to the cab of the M270/nt changes have added additional to meet the product of the sensor-to-shoot timeline ets. The effort also provide on capability as the HIMAR will enhance crew protection FY14 procures the IAC for oduction award for 225 IAC Q FY2015.  The FCS-U preserves current minimize redesign of multiple ware will be completed in Fact significantly improves the stage of the control of the complete of the control of the complete of the control of the complete of the control of the contr	e to IFCS.  Integration (MANPRINT) ded over the previous years M270A1 Launcher being selitional electronic equipment act improvements requirement. This increased capability is increased situational awas S Increased Crew Protection to meet mandated requires integraiton onto existing Macunits will be completed in Incapabilities of firing the complete logic cards when a compart Y2015, with the first FCS-U crews survivability and situations years.	eficiencies identified between the launcher saled during firing and t which requires additional ent that counters emerging will eliminate the need for reness on the battlefield.  In (ICP) cab. The ements, including 270A1 vehicles.  FY14, with the first IAC explores and ponent (i.e. processor)  I delivery occurring in eational awareness. The
Manufacturer Informatio	n: Inactive Mods						
Manufacturer Name: TBD				Manufacturer Location: 1	ΓBD		
Administrative Leadtime (i	in Months):			Production Leadtime (in	Months):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informatio	n: M993A1						
Manufacturer Name: TBD				Manufacturer Location: 7	ΓBD		
Administrative Leadtime (i	in Months): 3			Production Leadtime (in	Months): 6		

			0.10.	LAGGII ILD			
Exhibit P-3A, Indivi	dual Modification: PE	3 2013 Army				Date: February 2012	<u>.</u>
Appropriation / Buc 2032A / BA 3 / BSA	<b>Iget Activity / Budge</b> 10	t Sub Activity:	P-1 Line Item No C67500 - MLRS I			Modification Nome (Modification Title, M Multiple Launch Roc Modifications - 000	lodification Number):
Models of Systems	Affected: M270A1	Тур	e Modification: .		Related R	DT&E PEs:	
Manufacturer Informatio	n: M993A1				l		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informatio	n: Global Positioning Sys	tem (GPS) Upgrades		'		1	
Manufacturer Name: TBD				Manufacturer Location: TE	BD		
Administrative Leadtime (	in Months):			Production Leadtime (in M	fonths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informatio	n: Obsolescence Mitigation	ons/ECP Reliability In	tg				
Manufacturer Name: TBD				Manufacturer Location: TE	BD		
Administrative Leadtime (	in Months):			Production Leadtime (in M	fonths):		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informatio	n: Auxiliary Power Unit/E	nvironmental Control	Unit				
Manufacturer Name: TBD				Manufacturer Location: TE	BD		
Administrative Leadtime (	in Months): 3			Production Leadtime (in M	fonths): 13		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates							
Delivery Dates							
Manufacturer Informatio	n: Enhanced Command a	nd Control (C2)					
Manufacturer Name: TBD				Manufacturer Location: TB	BD		
Administrative Leadtime (	in Months): 3			Production Leadtime (in M	lonths): 9		
Dates	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Contract Dates	Jan 2011	Jan 2012	Jan 2013				
Delivery Dates	Oct 2011	Oct 2012	Oct 2013				
Manufacturer Informatio	n: Improved Armored Cab	(IAC)					
Manufacturer Name: TBD				Manufacturer Location: TE	BD		

LI C67500 - MLRS Mods

Army

Page 10 of 22

P-1 Line #13

Exhibit P-3A, Indivi	dual Modification: P	B 2013 Army							D	ate: Febru	ary 2012		
Appropriation / Bud 2032A / BA 3 / BSA	dget Activity / Budge 10	et Sub Activity:		ine Item N 00 - MLRS		ature:			(A M	/lodificatio	n Nomeno n Title, Mounch Rocke ns - 000	dification i	,
Models of Systems	Affected: M270A1	Ту	pe Modific	cation: .				Relate	ed RDT&E	PEs:			
Manufacturer Information	on: Improved Armored Ca	b (IAC)						'					
Administrative Leadtime (	(in Months): 3				Pro	duction Leadti	me (in Month	ns): 9					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	5	FY 20	16	FY 2	017
Contract Dates						Jan 2014		Jan 201	5	Jan 20	16	Jan 2	.017
Delivery Dates						Oct 2014		Oct 201	5	Oct 20	16	Oct 2	016
Manufacturer Information	on: Fire Control System (F	CS) Upgrade											
Manufacturer Name: TBD	)				Mai	nufacturer Loc	ation: TBD						
Administrative Leadtime (	in Months): 3				Pro	duction Leadti	me (in Month	ns): 9					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	5	FY 20	16	FY 2	017
Contract Dates								Jan 201	5	Jan 20	16	Jan 2	.017
Delivery Dates								Oct 201	5	Oct 20	16	Oct 2	017
Manufacturer Information	on: Drivers Vision Enhanc	ements(DVE)											
Manufacturer Name: TBD	)				Mai	nufacturer Loc	ation: TBD						
Administrative Leadtime (	(in Months): 3				Pro	duction Leadti	me (in Month	ns): 9					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	5	FY 20	16	FY 2	017
Contract Dates	Jan 2010												
Delivery Dates	Oct 2010												
Installation: Inactive Mod	ds	Me	thod of Impl	ementation	: TBD			Installa	tion Name:				
			Years	1	2011	FY	2012	FY 201		FY 201	13 OCO	FY 201	3 Total
Installation Cost		Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years		0	0.000	0	0.00	0 0	0.000	0	0.000	0	0.000	0	0.00
FY 2011		0	0.000	0	0.00	0 0	0.000	0	0.000	0	0.000	0	0.00
FY 2012		0	0.000	0	0.00	0 0	0.000	0	0.000	0	0.000	0	0.00
FY 2013		0	0.000	0	0.00	0 0	0.000	0	0.000	0	0.000	0	0.00

**UNCLASSIFIED** 

0.000

0.000

0.000

0.000

0

0

0

0.000

0.000

0.000

0

0

0.000

0.000

0.000

0.000

0

0

0

0

0.000

0.000

0.000

0

0

0

0

0.000

0.000

0.000

0.000

LI C67500 - MLRS Mods 93 Page 11 of 22 P-1 Line #13 Army

0

0

0

0

0

0

0.000

0.000

0.000

0.000

FY 2014

FY 2015

FY 2016

FY 2017

															OIAC	CLAS	JII 1																
Exhi	ibit	P-3/	A, In	divi	dual	Mod	ificati	on: P	B 201	3 Ar	my														Da	te: F	ebr	uary	2012				
<b>App</b> 2032						Activ	vity / E	Budge	et Sub	Act	tivity:		<b>P-1 Li</b> C6750					ure:							(M Mu	<i>odific</i> Iltiple	atio La	on Ti	le, M Roc		u <b>re</b> eation ystem		,
Mod	lels	of S	Syst	ems	Affe	cted	: M27	DA1			Т	ype N	/lodific	atio	n: .							Rel	ated	RD	Г&Е	PEs	:						
Instal	llatio	on: In	active	e Mod	s						M	lethod	of Imple	ement	ation:	TBD						Insta	allatio	n Na	me:								
											Pric	r Year	s		FY 2	2011			FY 20	)12		FY 2	2013 E	Base		F	Y 20	13 00	ю		FY 20	13 Tota	al
Instal	llatio	on Co	st								Qty (Each)	Tot:	al Cost \$ M )	Qt (Ea		Total C		Qty (Eac		Total C		Qty (Each)	Т	otal C		Qt (Ea			al Cost \$ M )		<b>Qty</b> ∃ach)		I Cost
To Co	ompl	lete										0	0.000		0		0.000		0		0.000		0		0.000			0	0.00	0	C	)	0.000
Total												0	0.000		0		0.000		0		0.000		0		0.000			0	0.00	0	C	)	0.000
															FY 2	2015			FY 20	)16		F	Y 201	7		7	o C	omple	te		To	otal	
Instal	stallation Cost												al Cost	Qt (Ea		Total C		Qty (Eac		Total C		Qty (Each)	Т	otal C		Qt (Ea			al Cost		<b>Qty</b> ∃ach)		I Cost
All Pri	rior Years											0	0.000		0		0.000		0		0.000		0		0.000			0	0.00	0	C		0.000
FY 20	011											0	0.000		0		0.000		0		0.000		0		0.000			0	0.00	0	C	)	0.000
FY 20	012											0	0.000		0		0.000		0		0.000		0	(	0.000			0	0.00	0	C	)	0.000
FY 20	013											0	0.000		0		0.000		0		0.000		0	(	0.000			0	0.00	0	C	)	0.000
FY 20	014											0	0.000		0		0.000		0		0.000		0		0.000			0	0.00	0	C	)	0.000
FY 20	)15											0	0.000		0		0.000		0		0.000		0		0.000			0	0.00	0	C	)	0.000
FY 20	016											0	0.000		0		0.000		0		0.000		0		0.000			0	0.00	0	C	)	0.000
FY 20	017											0	0.000		0		0.000		0		0.000		0	(	0.000			0	0.00	0	C	)	0.000
To Co	ompl	lete										0	0.000		0		0.000		0		0.000		0		0.000			0	0.00	0	C		0.000
Total												0	0.000		0		0.000		0		0.000		0	-	0.000			0	0.00	0		)	0.000
Instal	llatio	on Sc	hedu	ıle								-																					
				FY 2		1	-	_	2012		<u> </u>	FY 2			. [	FY 20					2015		. 1		2016	_			FY 2		1		_
In	AF		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	_	4	1	2	3	4	TC	Tot
In Out	-		0	0	0		0 0	-				0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0			
Jul			U	U	U		0		U		0	U	U	U	U	U	U	U	U	U	0	U	U			0	U	U	0	U	0		
Instal	llatio	on: M	993A	.1							M	lethod	of Imple	ement	ation:	TBD						Insta	allatio	n Na	me:								
												r Year	-		FY 2				FY 20				2013 E					13 00			FY 20		
Instal	llatio	on Co	st								Qty (Each)		al Cost \$ M )	Qt (Ea		Total C		Qty (Eac		Total C		Qty (Each)	Т	otal C (\$ M		Qt (Ea			al Cost \$ M )		<b>Qty</b> Each)		I Cost
All Pri	ior Y	ears										0	2.600		0		0.000		0		0.000		0		0.000			0	0.00		C		0.000
FY 20	011											0	0.000		0		0.200		0		0.000		0		0.000			0	0.00	0	0	)	0.000

LI C67500 - MLRS Mods Army UNCLASSIFIED
Page 12 of 22

P-1 Line #13

Exhib	it P-	3A, lı	ndivi	dua	l Modif	fication	n: Pl	3 201	3 Arr	ny												<b>Date:</b> Fe	brua	ary 2012			
	pria	tion	/ Bud	lget	Activi							<b>P-1 Li</b> C6750			<b>omenclat</b> Mods	ure:					(	Modifica	a <i>tion</i> Laur	nch Rock	<b>clature</b> odification et Syster		
Mode	ls of	Syst	tems	Affe	ected:	M270	A1			Ту	/pe N	/lodific	ation	1: .					R	elate	d RDT&	E PEs:					
Installa	ition:	M993A	<b>A</b> 1							Me	ethod	of Imple	ementa	ation:	TBD				In	stallati	ion Name	<u> </u>					
										Prio	r Year	s		FY 2	011		FY 2	012	F	Y 2013	Base	FY	2013	осо	FY 2	013 To	tal
Installa	ition (	Cost								Qty (Each)		al Cost	Qty (Eac		Total Cost	Qty (Each		Total Co			Total Cost	Qty (Each	,)	Total Cost	Qty (Each)		al Cost
FY 201	2									(	)	0.000		0	0.000		0	(	0.300	0	0.10	0	0	0.000		0	0.100
FY 201	3									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
FY 201	4									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
FY 201										(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
FY 201	6									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
FY 201	7									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
To Con	nplete									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
Total	plete							(	)	2.600		0	0.200		0	(	0.300	0	0.10	0	0	0.000		0	0.100		
										FY	2014			FY 2	015		FY 2	016		FY 20	017	То	Com	plete	-	Total	
Installa	ition (	Cost								Qty (Each)		al Cost	Qty (Eac		Total Cost	Qty (Each		Total Co			Total Cost	Qty (Each	,)	Total Cost	Qty (Each)		al Cost
All Prio	r Year	s								· /	)	0.000		0	0.000	•	0		0.000	0	0.00	+ ' '	0	0.000		0	2.600
FY 201	1									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.200
FY 201	2									(	ו	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.400
FY 201	3									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
FY 201	4									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
FY 201	5									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
FY 201	6									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
FY 201	7									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
To Con	nplete									(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	0.000
Total										(	)	0.000		0	0.000		0	(	0.000	0	0.00	0	0	0.000		0	3.200
Installa	tion S	Sched																									
	-		FY 2		_		FY 2				FY 2				FY 2014			FY 2			FY 20			FY 2		_	
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2 3	4	1	2	3 4		2	3 4	_		3 4	TC	Tot
In	225	0	0		0 0	0	0	0	0	0	0	0	0	0	0 0	0	0			_	0 0		0	0 0			225
Out 225 0 0 0 0 0 0 0 0							0		0	0	0	0 0	0		0	0		0 0		0	0 0	0 (					

LI C67500 - MLRS Mods Army UNCLASSIFIED
Page 13 of 22

P-1 Line #13

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / BA 3 / BSA 10

P-1 Line Item Nomenclature:
C67500 - MLRS Mods

Multiple Launch Rocket System (MLRS)
Modifications - 000

Models of Systems Affected: M270A1 Type Modification: . Related RDT&E PEs:

Installation: Global Positioning System (GPS) Upgrades	Me	thod of Impl	ementation	TBD			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	13 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.200	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY:	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)								
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.200
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.200

LI C67500 - MLRS Mods
Army

UNCLASSIFIED
Page 14 of 22
P-1 Line #13

Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2032A / BA 3 / BSA 10 C67500 - MLRS Mods (Modification Title, Modification Number): Multiple Launch Rocket System (MLRS) Modifications - 000 Models of Systems Affected: M270A1 Type Modification: . Related RDT&E PEs: Installation: Global Positioning System (GPS) Upgrades Method of Implementation: TBD Installation Name: Installation Schedule **FY 2011** FY 2012 FY 2013 FY 2014 FY 2015 **FY 2016** FY 2017 **APY** 1 2 4 4 1 2 3 4 1 2 4 1 2 3 4 1 2 4 2 3 4 TC 1 3 3 Tot In 0 Out 0 0 0 0 0 0 0 0 0 Installation: Obsolescence Mitigations/ECP Reliability Into Method of Implementation: TBD Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Total Cost **Total Cost Total Cost** Qty Qty Qty Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Installation Cost (Each) (Each) (\$ M) (Each) (Each) 0.000 0.000 0.000 0.000 0 0.000 0.000 All Prior Years 0 0.000 0.000 0.000 FY 2011 0 0.000 0 0.000 0 0.000 0 FY 2012 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 FY 2013 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 FY 2014 0.000 0.000 0.000 0 0.000 0.000 FY 2015 0 0.000 0.000 0.000 0.000 0.000 0 0.000 0 0 0 0.000 0.000 0 0.000 0.000 0 FY 2016 0.000 0 0 0 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 To Complete Ω 0.000 0.000 0.000 0.000 0.000 Total FY 2014 FY 2015 FY 2016 To Complete FY 2017 Total Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost** Qty **Total Cost Total Cost** Installation Cost (Each) (\$ M) 0 0.000 0.000 0.000 0 0.000 0 0.000 0.000 All Prior Years 0 0 FY 2011 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2012 0.000 0.000 0.000 0.000 0 0.000 0 0 0 0 0.000 FY 2013 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 FY 2014 0 0.000 0.000 0.000 0.000 0 0.000 0 0.000 Ω FY 2015 0 0.000 0.000 0.000 0.000 0 0.000 0 0.000

LI C67500 - MLRS Mods

Army

UNCLASSIFIED

Page 15 of 22

P-1 Line #13

Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2032A / BA 3 / BSA 10 (Modification Title, Modification Number): C67500 - MLRS Mods Multiple Launch Rocket System (MLRS) Modifications - 000 Models of Systems Affected: M270A1 Type Modification: . Related RDT&E PEs: Installation: Obsolescence Mitigations/ECP Reliability Intg Method of Implementation: TBD **Installation Name:** FY 2014 FY 2015 FY 2016 FY 2017 To Complete Total Qty **Total Cost Total Cost Total Cost Total Cost Total Cost Total Cost** Qty Qty Qty Qty Qty **Installation Cost** (Each) (\$ M) (Each) (\$ M) (Each) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) FY 2016 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 0.000 0.000 0.000 0.000 0 FY 2017 0 0.000 0.000 0.000 0 0.000 0 0 To Complete 0 0.000 0 0 0.000 0.000 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 Total 0 Installation Schedule FY 2013 FY 2015 **FY 2011** FY 2012 FY 2014 **FY 2016** FY 2017 APY 2 2 2 2 2 2 2 TC 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 Tot 0 Out 0 Installation: Auxiliary Power Unit/Environmental Control Unit Method of Implementation: TBD **Installation Name:** 

	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 20	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	3.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	3.100	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI C67500 - MLRS Mods Army

**UNCLASSIFIED** Page 16 of 22

P-1 Line #13

Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2032A / BA 3 / BSA 10 C67500 - MLRS Mods (Modification Title, Modification Number): Multiple Launch Rocket System (MLRS) Modifications - 000 Models of Systems Affected: M270A1 Type Modification: . Related RDT&E PEs: Installation: Auxiliary Power Unit/Environmental Control Unit Method of Implementation: TBD Installation Name: FY 2014 FY 2015 FY 2016 FY 2017 To Complete Total Qty **Total Cost** Installation Cost (Each) (Each) (\$ M) (Each) (Each) (Each) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (\$ M) 0.000 0.000 0 0.000 0.000 0 0.000 0 3.100 All Prior Years FY 2011 0 0.000 0.000 0.000 0.000 0.000 0 0.000 0 FY 2012 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2013 0 0 FY 2014 0.000 0.000 0.000 0.000 0 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2015 FY 2016 0 0.000 0.000 0.000 0 0.000 0 0.000 0 0.000 FY 2017 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 To Complete 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0.000 0.000 0.000 0.000 0.000 3.100 Total Installation Schedule FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 **APY** 1 4 1 4 1 2 4 1 2 4 1 2 4 1 2 4 1 2 4 TC Tot 225 0 225 In 0 0 0 0 225 Out 225 Installation: Enhanced Command and Control (C2) Method of Implementation: TBD Installation Name: **Prior Years** FY 2011 FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total Qty Total Cost Qty **Total Cost** Qty **Total Cost Total Cost** Qty **Total Cost** Qty Total Cost Installation Cost (Each) (\$ M) All Prior Years 125 2.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 37 0.592 0.000 0.000 0 0.000 FY 2011 FY 2012 0 0.000 0.000 0 0.000 54 0.864 0 0.000 54 0.864 0 FY 2013 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2014 0 0.000 0 0.000 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 FY 2015 0.000 0 0.000 0 0.000 0 0 0.000 0.000 FY 2016 0.000 0.000 0.000 0.000 0 0.000 0 0.000

LI C67500 - MLRS Mods Army UNCLASSIFIED
Page 17 of 22

P-1 Line #13

Exhi	bit P-	3A, Ir	ndivid	dua	l Modif	ficatio	<b>יי:</b> Pl	B 2013	Arm	าง												Da	te: Febi	ruary	2012				_
	r <b>opria</b> 2A / B <i>i</i>				t Activi	ty / B	udge	t Sub /	Activ	vity:		<b>P-1 L</b> i C6750					ure:					(Ma	odificati odificati ultiple La odificatio	<i>on Ti</i> aunch	tle, Mod Rocke	difica	tion I		
Mod	els of	Syst	ems	Aff	ected:	M270	A1			Ty	pe N	lodific	atio	n: .						Rela	ted RI								
Instal	lation:	Fnhan	ced Co	omm	and and	Contro	ol (C2)			M	ethod	of Impl	emen	tation:	TBD					Install	ation N	ame:							_
										Prio	r Years	s		FY 2	2011			FY 2	012	FY 20	13 Bas	е	FY 20	013 O	co	F	Y 201	3 Total	_
Instal	lation (	Cost							(	<b>Qty</b> Each)		al Cost	(E	Qty ach)	Total C		Qty (Each		Total Cost (\$ M)	Qty (Each)	Total		Qty (Each)		tal Cost	Q (Ea		Total C	
FY 20	17									(	0	0.000		0		0.000		0	0.000		0	0.000		0	0.000		0		0.00
To Co	mplete	:								(	0	0.000		0		0.000		0	0.000		0	0.000		0	0.000		0		0.00
Total												2.000		0		0.000		37	0.592	5	4	0.864		0	0.000		54		0.86
								FY	2014			FY 2	2015			FY 2	016	FY	2017		To C	omple	ete		To	 tal	_		
Instal	allation Cost (											al Cost		Qty ach)	Total C		Qty (Eacl		Total Cost	Qty (Each)	Total		Qty (Each)		tal Cost	Q (Ea		Total C (\$ M	
All Pri	Ilation Cost rior Years									,	0	0.000	<u> </u>	0		0.000	•	0	0.000		0	0.000		0	0.000		125		2.00
FY 20	11	Years								(	0	0.000		0		0.000		0	0.000		0	0.000		0	0.000		37		0.59
FY 20	12	Years								(	0	0.000		0		0.000		0	0.000		0	0.000		0	0.000		54		0.86
FY 20	13	1 2 3								!	9	0.144		0		0.000		0	0.000		0	0.000		0	0.000		9		0.14
FY 20	14									(	0	0.000		0		0.000		0	0.000		0	0.000		0	0.000		0		0.000
FY 20	15										0	0.000		0		0.000		0	0.000		0	0.000		0	0.000		0		0.00
FY 20	16									(	0	0.000		0		0.000		0	0.000	-	0	0.000		0	0.000		0	-	0.00
FY 20	17									-	0	0.000		0		0.000		0	0.000		0	0.000		0	0.000		0	-	0.00
To Co	mplete	!									0	0.000		0		0.000		0	0.000		0	0.000		0	0.000		0		0.000
Total											9	0.144		0		0.000		0	0.000		0	0.000		0	0.000		225	:	3.600
instai	lation S	Scnea	FY 2	011			FY 2	2012			FY 2	013			FY 20	114			FY 2015		F	Y 2016			FY 20	17			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2 3	4	1 2		_	1	2	3	4	тс	Tot
In	125 0 0 0 0 9 9 9 10								13	13	14	14	9	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	225	
Out	125 0 0 0 0 0 0 19 18							0	19	19	16	0	9	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	225		
		stallation: Improved Armored Cab (IAC)										of Impl	omon	tation:	TRD					Install	ation N	ame:							
Instal	lation:	Improv	red Arr	nore	d Cab (I	4C)				IVI	etiiou	or milbi	emen	tation.	יטטי														
Instal	lation:	Improv	ed Arr	nore	d Cab (I	AC)					r Years		cilicii	FY 2				FY 2	012	FY 20	13 Bas	е	FY 20	013 O	co	F	Y 201	3 Total	
	lation:		red Arr	nore	ed Cab (I	AC)			(		r Years		c				Qty (Each	,	Total Cost (\$ M)	Cty (Each)		Cost	FY 20 Qty (Each)	To	tal Cost	Q		3 Total Total C	

LI C67500 - MLRS Mods Army UNCLASSIFIED Page 18 of 22

P-1 Line #13

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / BA 3 / BSA 10

P-1 Line Item Nomenclature:

C67500 - MLRS Mods

Multiple Launch Rocket System (MLRS)

Modifications - 000

Models of Systems Affected: M270A1 Type Modification: . Related RDT&E PEs:

Installation: Improved Armored Cab (IAC)	Me	thod of Impl	ementation	TBD			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	13 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)
FY 2011	С	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)								
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	13	0.364	0	0.000	0	0.000	0	0.000	13	0.364
FY 2015	0	0.000	0	0.000	57	1.596	0	0.000	0	0.000	57	1.596
FY 2016	0	0.000	0	0.000	0	0.000	61	1.788	0	0.000	61	1.788
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	94	2.632	94	2.632
Total	0	0.000	13	0.364	57	1.596	61	1.788	94	2.632	225	6.380

LI C67500 - MLRS Mods
Army

UNCLASSIFIED
Page 19 of 22
P-1 Line #13

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A / BA 3 / BSA 10

P-1 Line Item Nomenclature:
C67500 - MLRS Mods

Modification Nomenclature
(Modification Title, Modification Number):
Multiple Launch Rocket System (MLRS)
Modifications - 000

Models of Systems Affected: M270A1 Type Modification: . Related RDT&E PEs:

Installation: Improved Armored Cab (IAC)

Method of Implementation: TBD

Installation Name:

#### Installation Schedule

			FY	2011			FY 2	2012			FY 2	013			FY 2	2014			FY 2	2015			FY 2	016			FY 2	017			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	-	0	(	) (	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	0	0	14	14	14	15	15	15	15	16	94	225
Out	-	0	(	) (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	38	19	0	19	19	23	94	225

Installation: Fire Control System (FCS) Upgrade	Me	thod of Impl	ementation:	TBD			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	13 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)						
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	То	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	57	0.855	0	0.000	0	0.000	57	0.855

LI C67500 - MLRS Mods Army

UNCLASSIFIED
Page 20 of 22

P-1 Line #13

UNCLASSIFIED Exhibit P-3A, Individual Modification: PB 2013 Army Date: February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: **Modification Nomenclature** 2032A / BA 3 / BSA 10 C67500 - MLRS Mods (Modification Title, Modification Number): Multiple Launch Rocket System (MLRS) Modifications - 000 Models of Systems Affected: M270A1 Type Modification: . Related RDT&E PEs: Installation: Fire Control System (FCS) Upgrade Method of Implementation: TBD Installation Name: FY 2014 FY 2015 FY 2016 FY 2017 To Complete Total Qty **Total Cost** Installation Cost (Each) (Each) (\$ M) (Each) (Each) (Each) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (\$ M) FY 2016 0.000 0.000 0 0.000 33 0.495 0 0.000 33 0.495 0.000 FY 2017 0 0.000 0.000 0.000 0.100 0.100 0 0.000 0 0.000 0 0.000 0 0.000 132 1.935 132 1.935 To Complete 0 0.000 0 0.000 57 0.855 33 0.495 135 2.035 225 3.385 Total Installation Schedule **FY 2011** FY 2012 **FY 2013** FY 2014 FY 2015 **FY 2016 FY 2017** 2 2 2 2 2 TC **APY** 1 2 3 4 1 2 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 Tot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 14 14 14 15 8 8 9 135 225 Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 19 19 19 0 19 135 225 0 14 Installation: Drivers Vision Enhancements(DVE) Method of Implementation: TBD **Installation Name:** FY 2012 **FY 2013 Base FY 2013 OCO** FY 2013 Total **Prior Years** FY 2011 **Total Cost Total Cost Total Cost Total Cost** Qty Qty Qty **Total Cost** Qty Total Cost Installation Cost (Each) (\$ M) All Prior Years 0 0.000 0 0.500 0 0.000 0.000 0 0.000 0 0.000 FY 2011 0 0.000 0.000 0 0.000 0.000 0 0.000 0 0.000 FY 2012 0.000 0.000 0.000 0.000 0 0.000 0 0.000 0 0 0.000 0 0.000 0.000 0 0.000 FY 2013 0.000 0.000

0.000

0.000

0.000

0.000

0.000

0.500

0

0

0

0

0

0

0

0.000

0.000

0.000

0.000

0.000

0.000

0

0

0

0

P-1 Line #13

0.000

0.000

0.000

0.000

0.000

0.000

0

0

0

0

0

0

0.000

0.000

0.000

0.000

0.000

0.000

0

0

0

0

0

0

0.000

0.000

0.000

0.000

0.000

0.000

LI C67500 - MLRS Mods	UNCLASSIFIED
Army	Page 21 of 22

0

0

0

0

0

0

0.000

0.000

0.000

0.000

0.000

0.000

FY 2014

FY 2015

FY 2016

FY 2017

Total

To Complete

Exh	ibit P-	3A,	Ind	ivid	lual N	/lodi	ficat	ion: F	B 20	)13 <i>A</i>	۱rmy	'														Date	: Fel	oruary	y 2012				
	ropria 2A / B <i>i</i>					ctivi	ity / I	Budge	et Su	ıb A	ctivi	ty:			_	I <b>tem I</b> MLRS		<b>enclat</b> ds	ure:							( <i>Moc</i> Multi	<i>difica</i> iple L	tion T	Nomen Title, Mo h Rock	odifica	ation		
Mod	lels of	Sys	ster	ns /	Affec	ted:	M27	0A1				Ty	/pe N	/lodif	catio	on: .							Re	lated	RDT8	E P	Es:						
Insta	llation:	Drive	ers V	isior	Enha	ncem	ents(E	OVE)				M	ethod	of Imp	leme	ntation	: TBD						Inst	tallatio	n Name	):							
												FY	2014			FY	2015			FY 2	016			FY 201	17		То	Comp	ete		To	otal	
Insta	llation	Cost									Q (Ea			al Cost \$ M )		<b>Qty</b> Each)		Cost	Qty (Eac		Total C (\$ M		Qty (Each)		Total Cost (\$ M )		Qty (Each)	Т	otal Cost (\$ M )	(Ei	Qty ach)		al Cost § M)
All Pr	ior Year	rs										(	0	0.000	1	0		0.000		0		0.000		0	0.0	00		0	0.000	)	0	)	0.500
FY 20	)11												0	0.000		0		0.000		0		0.000		0	0.0	00		0	0.000	)	0	)	0.000
FY 20	)12												0	0.000		0		0.000		0		0.000		0	0.0	00		0	0.000	)	0	)	0.000
FY 20	013												0	0.000		0		0.000		0		0.000		0	0.0	00		0	0.000	)	0	)	0.000
FY 20	)14												0	0.000		0		0.000		0		0.000		0	0.0	00		0	0.000	)	0	)	0.00
FY 20	)15												0	0.000		0		0.000		0		0.000		0	0.0	00		0	0.000	)	0	)	0.00
FY 20	016												0	0.000		0		0.000		0		0.000		0	0.0	00		0	0.000	)	0	)	0.000
FY 20	)17												0	0.000	)	0		0.000		0		0.000		0	0.0	00		0	0.000	)	0	)	0.000
To Co	omplete												0	0.000		0		0.000		0		0.000		0	0.0	00		0	0.000	)	0	)	0.000
Total													0	0.000	)	0		0.000		0		0.000		0	0.0	00		0	0.000	)	0	)	0.500
Insta	llation	Sche	dule																														
			Ī	FY 2	011			FY	2012				FY 2	2013			FY 2	2014			FY 2	2015			FY 2	016			FY 2	017			
	APY	1	_	2	3	4	1	2	3	4	-	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	225		ַ	0	0	0		) (	_	0	0	0	0	0	0				0	0	-	_	+		-	0	-	-	+ +	0	0		
Out	225	(	וכ	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	225

LI C67500 - MLRS Mods
Army

UNCLASSIFIED
Page 22 of 22
P-1 Line #13

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 3: Modification of Missiles / BSA 10:

C67501 - HIMARS Modifications

Modifications

ID Code (A=Service Ready, B=Not Service Ready) :

**Program Elements for Code B Items:** 

Other Related Program Elements: 0210600A, 0603778A,

0210602A

							-					
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	39.149	11.670	6.068	-	6.068	6.105	6.073	6.318	6.335	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	39.149	11.670	6.068	-	6.068	6.105	6.073	6.318	6.335	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	39.149	11.670	6.068	-	6.068	6.105	6.073	6.318	6.335	Continuing	Continuing
(The following	lowing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented e	lsewhere.)			

(The follow	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	sponding budg	et requests are	documented e	lsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

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, enhance command and control, decrease Operations and Support costs, reduce logistical impacts, resolve safety issues, and mitigate obsolescence.

Second	dary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017
Army Active	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	30.690	6.05	0 3.576	-	3.576	3.614	3.637	3.738	3.748
1 ,	Quantity	-	-	-	-	-	-	-	-	-
Guard	Total Obligation Authority	8.459	5.62	0 2.492	-	2.492	2.491	2.436	2.580	2.587
14	ana Cabaduda	Duinu V	V	EV 2044	EV 2042		EV 2042 Dans	EV 2042 O	CO E\	( 0042 Total

Item Schedule		P	rior Year	s		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	2013 To	otal
Item Nomenclature*	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost
HIMARS Modifications - 0000 P3A		-	-	-	-	-	39.149	-	-	11.670	-	-	6.068	-	-	-	-	-	6.068
Total Gross/Weapon System Cost				-			39.149			11.670			6.068			-			6.068

UNCLASSIFIED
Page 1 of 10

							UNC	CLAS	SIFIED	)									
Exhibit P-40, Budget Item Ju	ıstific	cation	Sheet:	PB 2013	3 Army									Date	e: Febru	uary 201	2		
Appropriation / Budget Activ 2032A : Missile Procurement, Modifications						es / BS	SA 10 :			Item No - HIMAR			s			-			
ID Code (A=Service Ready, B=Not Service Re	ady) :			I	Program	Element	s for Cod	e B Item	ns:				er Relate	d Progra	m Eleme	<b>nts:</b> 0210	600A, 060	)3778A,	
			FY 2014			FY 2015	;		FY 2016	3		FY 2017	7	To	o Comple	ete		Total	
Item Nomenclature* Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
HIMARS Modifications - 0000 P3A		-	-	6.105	-	-	6.073	-	-	6.318	-	-	6.335	-	-	-	-	-	-
Total Gross/Weapon System Cost				6.105			6.073			6.318			6.335			-			-

LI C67501 - HIMARS Modifications Army

				UNCLA	SSIFIED							
Exhibit P-3A, Individual Modification: P	B 2013 Arr	my							Date: Feb	ruary 2012	2	
Appropriation / Budget Activity / Budge 2032A / BA 3 / BSA 10	t Sub Acti	ivity:	<b>P-1 Line I</b> C67501 - I			ıs			Modificat (Modificat HIMARS	ion Title, M	lodification	Number <b>):</b>
Models of Systems Affected: M142 High Artillery Rocket System	Mobility		Modificatio Survivability		onal, Relia	bility, Safet	ty, Re	lated RDT	&E PEs:			
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	39.149	11.670	6.068	-	6.068	6.105	6.073	6.318	6.335	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	39.149	11.670	6.068	-	6.068	6.105	6.073	6.318	6.335	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	39.149	11.670	6.068	-	6.068	6.105	6.073	6.318	6.335	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented e	lsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)  Description:	-	-	-	-	-	-	-	-	-	-	-	-
Munitions rockets or one Army Tactical Missile Sys	tem Family o	of Munitions m	issile to a ran	ge of 300 kilo	meters.							

LI C67501 - HIMARS Modifications Army

Exhibit P-3A, Individual Modification: PB 2013 Army								Date:	February	2012		
Appropriation / Budget Activity / Budget Sub Activity 2032A / BA 3 / BSA 10		ne Item No 1 - HIMAR			-			(Modif	ication T	lomencla itle, Modifi ications -	ication N	lumber):
	<b>Type Modific</b> Crew Survival		erational	, Reliabilit	y, Safety	v, Rel	ated RD	T&E PE	<b>S</b> :			
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	Base	FY 201	3 ОСО	FY 20	13 Total
Financial Plan	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost
Procurement	(Lacii)	(\$ 101 )	(Lacii)	(\$ W )	(Lacil)	(\$ 101 )	(Lacii)	(\$ 101 )	(Laci)	(\$ W )	(Lacil)	(\$ 101 )
Enhanced Command and Control (C2) (1)												_
A Kits												_
Recurring												_
Equipment	(	0.000	23	1.500	0	0.000	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		1.500		0.000		0.000		0.000		0.00
Total, Enhanced Command and Control (C2)		0.000	23	1.500	0	0.000	0	0.000	0	0.000	0	0.00
Increased Crew Protection (ICP) Cab (2)							I.	l				ı
A Kits										,		
Recurring												
Kit Quantity	(	0.000	104	2.900	66	1.800	0	0.000	0	0.000	0	0.00
Subtotal Recurring		0.000		2.900		1.800		0.000		0.000		0.00
Total, Increased Crew Protection (ICP) Cab	(	0.000	104	2.900	66	1.800	0	0.000	0	0.000	0	0.00
Reliablity Obsolescence Mitigation (MOD 4)												
A Kits												
Recurring												
Equipment	(	0.000	0	31.749	0	7.070	0	5.055	0	0.000	0	5.05
Subtotal Recurring		0.000		31.749		7.070		5.055		0.000		5.05
Total, Reliablity Obsolescence Mitigation (MOD 4)	(	0.000	0	31.749	0	7.070	0	5.055	0	0.000	0	5.05
Total, All Modifications		0.000		36.149		8.870		5.055		0.000		5.05
Procurement Cost (Procurement + Support)		0.000		36.149		8.870		5.055		0.000		5.05
Total Installation Cost		0.000		3.000		2.800		1.013		0.000		1.01
Total Cost (Procurement + Support + Installation)		0.000		39.149		11.670		6.068		0.000		6.06
	FY	2014	FY 2	2015	FY 2	2016	FY 2	017	То Со	mplete	To	otal
Financial Plan	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost
Procurement	(====)	1 /	1 /	1 1	17	1/	1 7	1: "/	,,	12. 117	1 7	1 12/

LI C67501 - HIMARS Modifications Army

UNCLASSIFIED
Page 4 of 10

P-1 Line #14

Exhibit P-3A, Individual Modification: PB 2013 ArmyDate: February 2012Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:Modification Nomenclature2032A / BA 3 / BSA 10C67501 - HIMARS Modifications(Modification Title, Modification Number):HIMARS Modifications - 0000Models of Systems Affected: M142 High MobilityType Modification: Operational Reliability SafetyRelated RDT&F PFs:

Models of Systems Affected: M142 High Mobility<br/>Artillery Rocket SystemType Modification: Operational, Reliability, Safety,<br/>Crew SurvivabilityRelated RDT&E PEs:FY 2014FY 2015FY 2016FY 2017To CompleteTotal

	FY	2014	FY	2015	FY 2	2016	FY 2	2017	To Co	mplete	То	tal
Financial Plan	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost
Enhanced Command and Control (C2) (1)												
A Kits												
Recurring												
Equipment	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	23	1.50
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		1.50
Total, Enhanced Command and Control (C2)	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	23	1.50
Increased Crew Protection (ICP) Cab (2)												,
A Kits												
Recurring												
Kit Quantity	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	170	4.70
Subtotal Recurring		0.000		0.000		0.000		0.000		0.000		4.70
Total, Increased Crew Protection (ICP) Cab	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	170	4.70
Reliablity Obsolescence Mitigation (MOD 4)												,
A Kits												
Recurring												
Equipment	0	5.395	0	6.073	0	6.318	0	6.335	0	204.749	0	272.74
Subtotal Recurring		5.395		6.073		6.318		6.335		204.749		272.74
Total, Reliablity Obsolescence Mitigation (MOD 4)	0	5.395	0	6.073	0	6.318	0	6.335	0	204.749	0	272.74
Total, All Modifications		5.395		6.073		6.318		6.335		204.749		278.94
Procurement Cost (Procurement + Support)		5.395		6.073		6.318		6.335		204.749		278.94
Total Installation Cost		0.710		0.000		0.000	·	0.000		0.000		7.52
Total Cost (Procurement + Support + Installation)		6.105		6.073		6.318		6.335		204.749		286.46

#### Remarks:

LI C67501 - HIMARS Modifications Army UNCLASSIFIED
Page 5 of 10

P-1 Line #14

<sup>(1)</sup>The current on-board fire control system for the M142 HIMARS Launcher lacks the necessary Enhanced Command & Control (C2) functions to meet the product improvement requirement that counters emerging threat. 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 other C2 components.

				0.11	J _, (O O								
Exhibit P-3A, Indivi	dual Modification: P	B 2013 Army							D	<b>ate:</b> Febrւ	ary 2012		
Appropriation / Bud 2032A / BA 3 / BSA	dget Activity / Budge 10	et Sub Activity:		ine Item N 01 - HIMA					(/	/lodificatio	n Nomeno n Title, Mo odifications	dification I	Number):
Models of Systems Artillery Rocket Syst	Affected: M142 High em		pe Modific ew Surviva		perationa	al, Reliability	, Safety,	Relate	ed RDT&E	PEs:			
Medium Tactical Vehicl to be protected against	MARS launcher cab did no es (FMTV) and the FMTV i specified threats was valid S crew will lack adequate	nitial design required ated. In addition to co	no ballistic pro mmon threat	otection to its s to tactical v	s vehicles. wheel vehi	Based on the	results of Ope	eration Iraqi	Freedom/Op	eration Endu	uring Freedor	n the need fo	r the cab
Manufacturer Information	on: Enhanced Command	and Control (C2)											
Manufacturer Name: TDB					Ма	nufacturer Loca	ation: TDB						
Administrative Leadtime (	in Months): 3				Pro	duction Leadtii	me (in Months	s): 9					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	5	FY 20	16	FY 20	)17
Contract Dates	Jan 2011												
Delivery Dates	Oct 2011												
Manufacturer Information	on: Increased Crew Prote	ction (ICP) Cab											
Manufacturer Name: TBD					Ма	nufacturer Loca	ation: TBD						
Administrative Leadtime (	in Months): 3				Pro	duction Leadtii	me (in Months	s): 9					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	5	FY 20	16	FY 20	)17
Contract Dates	Sep 2011												
Delivery Dates	Sep 2011												
Manufacturer Information	n: Reliablity Obsolescen	ce Mitigation (MOD	<b>l</b> )										
Manufacturer Name: TBD					Ма	nufacturer Loca	ation: TBD						
Administrative Leadtime (	in Months):				Pro	duction Leadtii	me (in Months	s):					
Dates	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	5	FY 20	16	FY 20	)17
Contract Dates		Feb 2012											
Delivery Dates		Feb 2012											
Installation: Enhanced C	command and Control (C2)	Ma	thod of Impl	ementation	· TDR			Installa	tion Name:				
matanation. Emiliancea c	oninana ana controi (cz)		Years		2011	FV 1	2012		3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost		Qty (Each)	Total Cost	Qty (Each)	Total Cost		Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost	Qty (Each)	Total Cost
All Prior Years		(Laci)	· · ·	19		- ' '	1.000	130	1.013	0	· '	130	1.013
FY 2011		C	0.000	0	0.0	000 0	0.000	0	0.000	0	0.000	0	0.000
FY 2012		C	0.000	0	0.0	000 0	0.000	0	0.000	0	0.000	0	0.000
FY 2013		C	0.000	0	0.0	000 0	0.000	0	0.000	0	0.000	0	0.000
		1	1	I.					1			ļ	

LI C67501 - HIMARS Modifications Army

UNCLASSIFIED
Page 6 of 10

P-1 Line #14

Exhibit P-3A, Individual Modification: PB 2013 Army				Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2032A / BA 3 / BSA 10	<b>/</b> :	P-1 Line Item Nomenclature: C67501 - HIMARS Modifications		Modification Nomenclature (Modification Title, Modification Number): HIMARS Modifications - 0000
Modele of Systems Affected, M112 High Mobility	Tyme	Madification, Operational Deliability Cofety	Poloted PDT	9 E DEo:

| Models of Systems Affected: M142 High Mobility | Type Modification: Operational, Reliability, Safety, | Related RDT&E PEs:

Artillery Rocket System Crew Survivability

Installation: Enhanced Command and Control (C2)	Me	thod of Impl	ementation:	TDB			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)
FY 2014	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	C	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	C	0.000	19	0.100	130	1.000	130	1.013	0	0.000	130	1.013

	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	mplete	Tot	:al
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)
All Prior Years	73	0.500	0	0.000	0	0.000	0	0.000	0	0.000	352	2.613
FY 2011	23	0.210	0	0.000	0	0.000	0	0.000	0	0.000	23	0.210
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	96	0.710	0	0.000	0	0.000	0	0.000	0	0.000	375	2.823

#### Installation Schedule

			FY 2	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	017			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
In	352	23	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	375
Out	-	0	0	0	19	32	32	33	33	33	33	32	32	24	24	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	375

LI C67501 - HIMARS Modifications Army UNCLASSIFIED
Page 7 of 10

P-1 Line #14

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

(Modification Title, Modification Number):

2032A / BA 3 / BSA 10

C67501 - HIMARS Modifications

HIMARS Modifications - 0000

**Modification Nomenclature** 

Models of Systems Affected: M142 High Mobility

**Type Modification:** Operational, Reliability, Safety,

Related RDT&E PEs:

Artillery Rocket System

Crew Survivability

Installation: Increased Crew Protection (ICP) Cab	Me	thod of Impl	ementation:	TBD			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	2012	FY 201	3 Base	FY 201	3 OCO	FY 201	3 Total
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	104	2.900	66	1.800	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	104	2.900	66	1.800	0	0.000	0	0.000	0	0.000

	FY	2014	FY 2	2015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	<b>Qty</b> (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	170	4.700
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	170	4.700

LI C67501 - HIMARS Modifications Army

UNCLASSIFIED
Page 8 of 10

P-1 Line #14

Exhibit P-3A, Individual Modification: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A / BA 3 / BSA 10

P-1 Line Item Nomenclature:
C67501 - HIMARS Modifications

Modification Nomenclature
(Modification Title, Modification Number):
HIMARS Modifications - 0000

Models of Systems Affected: M142 High Mobility Type Modification: Operational, Reliability, Safety, Related RDT&E PEs:

Artillery Rocket System Crew Survivability

Installation: Increased Crew Protection (ICP) Cab

Method of Implementation: TBD

Installation Name:

#### Installation Schedule

		FY 2011 FY 2012 FY 2013 FY 2014																													
			FY	2011			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	017			
	AP	Y 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
In	22	2 0	C	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	222
Ou	: 5	28	19	19	38	38	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	222

Installation: Reliablity Obsolescence Mitigation (MOD 4)	Me	thod of Impl	ementation:	TBD			Installa	tion Name:				
	Prior	Years	FY 2	2011	FY 2	012	FY 201	3 Base	FY 201	3 OCO	FY 2013	Total
Installation Cost	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	108	0.000	141	0.000	126	0.000	0	0.000	126	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	108	0.000	141	0.000	126	0.000	0	0.000	126	0.000

	FY 2	2014	FY 2	.015	FY 2	2016	FY 2	017	To Co	mplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	<b>Qty</b> (Each)	Total Cost (\$ M)
All Prior Years	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2011	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2012	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	375	0.000
FY 2013	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2014	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2015	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

LI C67501 - HIMARS Modifications Army

UNCLASSIFIED
Page 9 of 10

P-1 Line #14

Exhibit P-3A, Individual Modification: PB 2013 Army

Date: February 2012

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Modification Nomenclature

2032A / BA 3 / BSA 10 C67501 - HIMARS Modifications (Modification Title, Modification Number):

HIMARS Modifications - 0000

Models of Systems Affected: M142 High Mobility Type Modification: Operational, Reliability, Safety, Related RDT&E PEs:

Artillery Rocket System Crew Survivability

Installation: Reliablity Obsolescence Mitigation (MOD 4)	Me	thod of Impl	ementation:	TBD			Installa	tion Name:				
	FY 2	2014	FY 2	2015	FY 2	2016	FY 2	2017	To Co	nplete	To	tal
Installation Cost	Qty (Each)	Total Cost (\$ M)	Qty (Each)	Total Cost (\$ M )	Qty (Each)	Total Cost (\$ M)						
FY 2016	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
FY 2017	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
To Complete	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
Total	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	375	0.000

#### Installation Schedule

			FY 2	011			FY 2	012			FY 2	013			FY 2	014			FY 2	2015			FY 2	2016			FY 2	017			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	-	27	27	27	27	35	35	35	36	31	31	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	375
Out	-	0	0	0	0	0	27	27	27	27	35	35	35	36	31	31	32	32	0	0	0	0	0	0	0	0	0	0	0	0	375

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 3: Modification of Missiles / BSA 10:

C71500 - HELLFIRE Modifications

Modifications

ID Code (A=Service Ready, B=Not Service Ready) :		Prograr	n Elements f	or Code B It	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	20.569	0.008	-	-	-	-	-	-	-	-	0.000	20.577
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	20.569	0.008	-	-	-	-	-	-	-	-	0.000	20.577
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	20.569	0.008	-	-	-	-	-	-	-	-	0.000	20.577
(The fo	llowing Resource	Summary rows	are for informa	ational purposes	s only. The corre	esponding budg	et requests are	documented el	sewhere.)	,	•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

#### Gross/Weapon System Unit Cost (\$ in Thousands) **Description:**

Flyaway Unit Cost (\$ in Thousands)

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.

Seco	ndary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	0.008	-	-	-	-

#### Justification:

There is no funding for FY13.

**UNCLASSIFIED** 

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 4: Spares and Repair Parts / BSA 10:

CA0250 - Spares And Repair Parts

Spares And Repair Parts

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements:

**Date:** February 2012

		5							- 3			
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,992.817	19.458	8.700	7.864	-	7.864	7.922	6.934	7.036	7.157	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2,992.817	19.458	8.700	7.864	-	7.864	7.922	6.934	7.036	7.157	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,992.817	19.458	8.700	7.864	-	7.864	7.922	6.934	7.036	7.157	Continuing	Continuing
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	_

#### **Description:**

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

Item Sche	dule		Р	rior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	ise	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost
*** (See enclosed P-40A)	P40A				0.000			19.458			8.700			7.864			0.000			7.864
Total Gross/Weapon System Cost					2,992.817			19.458			8.700			7.864			-			7.864

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

#### Justification

FY 13 Base procurement dollars in the amount of \$7.864 million procure MLRS Modification and Patriot Modification initial spares. The funds in this account procure depot level reparable (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund and commercial life cycle support vendors. To provide initial support, funds are normally required in the same year that end items are fielded.

FY 13 (\$M)

MLRS Mods \$1.064 Patriot Mods \$6.800 Total \$7.864

UNCLASSIFIED
Page 1 of 2

Exhibit P-40A, Budget Item Justification For Aggregated Items: PB 2013 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / BA 4 / BSA 10

Date: February 2012

Aggregated Item Name:

CA0250 - Spares And Repair Parts

Various

2002; ( ; 2) ( ; ; ;							0, 10.	_00 Орс							• 41.1040				
		Į .	All Prior Years	3		FY 2011			FY 2012		F	Y 2013 Base	9		FY 2013 OCC	)		FY 2013 Tota	d
Items († indicates the presence of a P-5A)	ID CD	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M )	Unit Cost	Qty (Each)	Total Cost (\$ M)
(Uncategorized)																			
CA0265 - MLRS MODIFICATION INITIAL SPARES		-	-	-	-	-	1.008	-	-	1.031	-	-	1.064	-	-	-	-	-	1.064
CA0267 - PATRIOT MODIFICATION INITIAL SPARES		-	-	-	-	-	6.953	-	-	6.732	-	-	6.800	-	-	-	-	-	6.800
CA0288 - INITIAL SPARES, HIMARS		-	-	-	-	-	9.651	-	-	0.937	-	-	-	-	-	-	-	-	-
CA0289 - HIMARS MODIFICATIONS: INITIAL SPARES		-	-	-	-	-	1.846	-	-	-	-	-	-	-	-	-	-	-	-
Uncategorized Subtotal				0.000			19.458			8.700			7.864			0.000			7.86
Total				0.000			19.458			8.700			7.864			0.000			7.864

Remarks:

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army **Date:** February 2012 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 5: Support Equipment and Facilities / BSA | C93000 - Air Defense Targets

10 : Support Equipment & Facilities

Gross/Weapon System Unit Cost (\$ in Thousands)

ID Code (A=Service Ready, B=Not Service Ready) :		Program	m Elements f	for Code B It	ems:		Oth	er Related P	rogram Elem	ents:		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	402.266	3.592	3.674	3.864	-	3.864	3.974	4.088	4.211	4.337	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	402.266	3.592	3.674	3.864	-	3.864	3.974	4.088	4.211	4.337	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	402.266	3.592	3.674	3.864	-	3.864	3.974	4.088	4.211	4.337	Continuing	Continuing
(The fo	llowing Resource	Summary rows	are for informa	ational purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

The Air Defense Artillery (ADA) Targets program provides target hardware and associated scoring, payload, and ground support equipment that enables Air Defense Artillery Soldiers and units to conduct required training. This training consists of Department of the Army Pamphlet (DA PAM) 350-38 (Standards in Training Commission) required gunnery tables and aerial target tracking, training and scoring.

Sec	ondary Distribu	tion		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO		FY 2013 Total
Army Active	Quantity			-	-	-		-	-
	Total Obligation Au	uthority		3.592	3.674	3.864		-	3.864
Itom Sch	andula		Drior Voors	EV 2011	EV 2012	EV 2013 Base	EV 2013 C	200	EV 2013 Total

	. otal obligation?		,				0.002			0.0										0.00.
Item Sch	edule		Р	rior Yea	rs		FY 2011			FY 2012		FY	2013 Ba	se	FY	2013 O	co	FY	′ 2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
C93000 - Air Defense Targets	P5, P5A		-	-	-	-	-	3.592	-	-	3.674	-	-	3.864	-	-	-	-	-	3.864
Total Gross/Weapon System Cost					402.266			3.592			3.674			3.864			-			3.864

1tem Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P40.

#### Justification:

FY 2013 Base procurement dollars in the amount of \$3.864 million support Air Defense Artillery Targets and scoring, payload, and ground support equipment in support of training required in DA PAM 350-38, Standards in Training Commission (STRAC). These items support gunnery tables, aerial target tracking (Captive Flight Trainer (CFT), and Tracking Head Trainer (THT)) training as well as providing targets for Missile Live Fire training when missiles are allocated in accordance with (IAW) the Missile Distribution Plan. These targets support U.S. Army Avenger systems worldwide. Training requirements are generated

UNCLASSIFIED LI C93000 - Air Defense Targets 118 Page 1 of 4 P-1 Line #17 Army

Exhibit P-40, Budget Item Justification Sheet: PB 20	13 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity	y:	P-1 Line Item Nomenclature:	
2032A: Missile Procurement, Army / BA 5: Support Eq	uipment and Facilities / BSA	C93000 - Air Defense Targets	
10 : Support Equipment & Facilities			
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Ite		Related Program Elements:
by Department of the Army Major Field Commands, Training Center ongoing force restructuring and are consistent with the approved trained gunnery standards, and are essential to qualify soldiers in support of the control of the cont	ining doctrine. These targets are ne		

LI C93000 - Air Defense Targets Army

Exhibit P-5, Cost	t An	alysis:	PB 2013	Army											<b>Date</b> : Fe	bruary 2	012		
Appropriation / E 2032A / BA 5 / BS			vity / Bu	dget Sı	ub Activi	ity:	1		<b>Nomencl</b> efense Ta						Name, D		,	n Number gets	r, Item
		Resou	ırce Sun	nmary			F	Prior Ye	ars	FY 20	11	FY 20 <sup>-</sup>	12	FY 2013	Base	FY 2013	осо	FY 2013	3 Total
Procurement Quantity	(Ead	ch)							-		-		-		-		-		
Gross/Weapon Syster	n Co	st (\$ in Mi	llions)						-		3.592		3.674		3.864		-		3.864
Less PY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1)	(\$ in	Millions)							-		3.592		3.674		3.864		-		3.864
Plus CY Advance Pro	curer	ment (\$ in	Millions)						-		-		-		-		-		-
Total Obligation Author	ority (	\$ in Millior	ns)						-		3.592		3.674		3.864		-		3.864
			(The	e following	Resource Su	ımmary rows	s are for info	ormational p	ourposes only	. The corre	sponding bu	ıdget reques	ts are docu	umented els	ewhere.)		·		
Initial Spares (\$ in Mill	lions)								-		-		-		-		-		-
Gross/Weapon Syster	n Un	it Cost (\$ i	n Thousan	ds)					-		-		-		-		-		-
		F	Prior Years	1		FY 2011			FY 2012		F	7 2013 Bas	e	F	Y 2013 OC	o	F	Y 2013 Tota	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
† Remotely Piloted Vehicle Target (RPVT)		-	-	-	7.000	174	1.218	8.000	199	1.592	7.000	222	1.554	-	-	0.000	7.000	222	1.554
† Scoring (Sensors)		-	-	-	6.000	49	0.294	6.000	50	0.300	7.000	3	0.021	-	-	0.000	7.000	3	
† Ground Station		-	-	-	-	-	0.000	42.000	2	0.084	-	-	0.000	-	-	-	-	-	0.000
† RPVT Beyond Visual Range (BVR) Payload		-	-	-	13.000	19	0.247	12.000	6	0.072	12.000	20	0.240	-	-	0.000	12.000	20	0.240
† Scoring (Airborne Kit)		-	-	-	16.000	20	0.320	16.000	5	0.080	16.000	30	0.480	-	-	0.000	16.000	30	0.480
Program Management Support		-	-	-	-	-	1.225	-	-	1.231	-	-	1.254	-	-	0.000	-	-	1.254
Logistics/Field Svc Support		-	-	-	-	-	0.288	-	-	0.315	-	-	0.315	-	-	0.000	-	-	0.31
Total Recurring Cost				0.000			3.592			3.674			3.864			0.000			3.86
Total Flyaway Cost				0.000			3.592			3.674			3.864			0.000			3.864
Gross Weapon System Cost				-			3.592			3.674			3.864			-			3.864
Remarks:								,									,		
Sec	onda	ry Distrib	ution			FY 201	1		FY 2012	!		FY 2013 Base			FY 2013 OCO	3		FY 2013 Total	
Army Active	Quar						-			-			-			-			-
	1-4-1	Obligation Au	thority				3.59	20		3.67	· 4		3.86	· a			1		3.864

LI C93000 - Air Defense Targets Army

UNCLASSIFIED
Page 3 of 4

P-1 Line #17

Exhibit P-5A, Budget Procurement History and Planning: PB 2013 ArmyDate: February 2012Appropriation / Budget Activity / Budget Sub Activity:<br/>2032A / BA 5 / BSA 10P-1 Line Item Nomenclature:<br/>C93000 - Air Defense TargetsItem Nomenclature:<br/>C93000 - Air Defense Targets

						. 90.0						
Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Remotely Piloted Vehicle Target (RPVT)		2011	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2011	Jun 2011	174	7.000	N		
Remotely Piloted Vehicle Target (RPVT)		2012	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2012	Jun 2012	199	8.000	N		
Remotely Piloted Vehicle Target (RPVT)		2013	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2013	Jun 2013	222	7.000	N		
Scoring (Sensors)		2011	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2011	Jun 2011	49	6.000	N		
Scoring (Sensors)		2012	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2012	Jun 2012	50	6.000	N		
Scoring (Sensors)		2013	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2013	Jun 2013	3	7.000	N		
Ground Station		2012	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2012	Jun 2012	2	42.000	N		
RPVT Beyond Visual Range (BVR) Payload		2011	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2011	Jun 2011	19	13.000	N		
RPVT Beyond Visual Range (BVR) Payload		2012	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2012	Jun 2012	6	12.000	N		
RPVT Beyond Visual Range (BVR) Payload		2013	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2013	Jun 2013	20	12.000	N		
Scoring (Airborne Kit)		2011	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2011	Jun 2011	20	16.000	N		
Scoring (Airborne Kit)		2012	Griffon Aerospace Inc. / Madison, AL	C/FFP	AMCOM	Mar 2012	Jun 2012	5	16.000	N		
Scoring (Airborne Kit)		2013	Griffon Aerospace Inc. / Madison, AL	C/FFP	AMCOM	Mar 2013	Jun 2013	30	16.000	N		

Remarks:

LI C93000 - Air Defense Targets Army

UNCLASSIFIED
Page 4 of 4

P-1 Line #17

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

## Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 5: Support Equipment and Facilities / BSA CL2000 - Items Less Than \$5.0m (Missiles)

10 : Support Equipment & Facilities

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

P-1 Line #18

ID Oode (A-Service Ready, D-Not Service Ready).		i rograi	ii Lieilleille	or oode b ite	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Otti	iei itelatea i	rogram Elem	ionio.		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	42.744	1.208	1.459	1.540	-	1.540	1.528	1.518	1.547	1.547	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	42.744	1.208	1.459	1.540	-	1.540	1.528	1.518	1.547	1.547	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	42.744	1.208	1.459	1.540	-	1.540	1.528	1.518	1.547	1.547	Continuing	Continuing
(The folio	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Gross/Weapon System Unit Cost (\$ in Thousands)

#### **Description:**

Provides for the procurement of various tools and shop sets to perform missile maintenance repair tasks on the Army's missile systems worldwide.

Seco	ondary Distribution	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Army Active	Quantity	-	-	-	-	-
	Total Obligation Authority	1.208	1.459	1.540	-	1.540

			- 7																	
Item Sch	edule		P	Prior Yea	rs		FY 2011			FY 2012		FY	′ 2013 Ba	se	FY	2013 O	co	FY	2013 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)
CL2000 - Items Less Than \$5.0m (Missiles)	P5		-	-	-	-	-	1.208	-	-	1.459	-	-	1.540	-	-	-	-	-	1.540
Total Gross/Weapon System Cost					42.744			1.208			1.459			1.540			-			1.540

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P40.

#### Justification:

FY13 Base procurement dollars in the amount of \$1.540 million supports the procurement of tools and shop sets for support of Patriot, Tube-launched, Optically-tracked, Wire-guided (TOW 2A) missile, TOW/ Improved Target Acquisition System (TOW 2B Aero/ITAS) missile, Multiple Launch Rocket System (MLRS), High Mobility Artillery Rocket System (HIMARS), Javelin, and Avenger. The U.S. Army Aviation and Missile Life Cycle Management Command (AMCOM-LCMC) provides materiel support to U.S. Army combat units. Under the AMCOM-LCMC, the Program Executive Office, Missiles and Space (PEO MS) is

**UNCLASSIFIED** 

Exhibit P-40, Budget Item Justification Sheet: PB 2	2013 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activ	rity:	P-1 Line Item Nomenclature:	
2032A: Missile Procurement, Army / BA 5: Support E	Equipment and Facilities / BSA	CL2000 - Items Less Than \$5.	0m (Missiles)
10 : Support Equipment & Facilities			
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B It		ther Related Program Elements:
required to build new toolkits and shop sets and replenish unserv		S. Army grew Brigade Combat Teams (	BCTs) from FY07-FY10 and Program Managers (PMs) placed
more tool kits into use. This request funds the increase in wholes	sale stock.		

LI CL2000 - Items Less Than \$5.0m (Missiles) Army

								0.1	CLASS										
Exhibit P-5, Cos	t Ar	nalysis:	PB 2013	Army										[	Date: Fe	bruary 2	2012		
Appropriation / 2032A / BA 5 / B		_	vity / Bu	idget Su	ıb Activ	ity:			<b>Nomenc</b> s Less Th		m (Miss	iles)		1	Name, D	OODIC): - Items L	•	<i>n Numbei</i> ın \$5.0m	r, Item
		Resou	ırce Sun	nmary			F	rior Ye	ars	FY 20 <sup>-</sup>	11	FY 20	12	FY 2013	Base	FY 201	3 OCO	FY 2013	3 Total
Procurement Quantity	у (Еа	ch)							-		-		-		-		-		-
Gross/Weapon Syste	m Co	ost (\$ in Mi	llions)						-		1.208		1.459		1.540		-		1.540
Less PY Advance Pro	ocure	ment (\$ in	Millions)						-		-		-		-		-		-
Net Procurement (P1	) (\$ i	n Millions)							-		1.208		1.459		1.540		-		1.540
Plus CY Advance Pro	cure	ment (\$ in	Millions)						-		-		-		-		-		-
Total Obligation Auth	ority	(\$ in Million	ns)						-		1.208		1.459		1.540		-		1.540
			(Th	e following l	Resource Si	ummary row	s are for info	rmational <sub>l</sub>	ourposes only	y. The corre	sponding b	udget reques	sts are docu	ımented else	where.)				
Initial Spares (\$ in Mi	llions	)							-		-		-		-		-		-
Gross/Weapon Syste	m Ur	nit Cost (\$	in Thousan	ıds)					-		-		-		-		-		-
		F	Prior Years	5		FY 2011			FY 2012		F'	Y 2013 Bas	se	F	Y 2013 O	co	F	Y 2013 Tota	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost									T		ı					1	1		
Shop Sets / Tools		-	-	-	-	-	1.208	-	-	1.459	-	-	1.540	-	-	0.000	_	-	1.54
Total Recurring Cost  Total Flyaway Cost	-			0.000			1.208			1.459 1.459			1.540 1.540			0.000			1.54
Gross Weapon System Cost				-			1.208			1.459			1.540			-			1.54
Remarks:						,								1					
		ary Distrib	ution			FY 201	1		FY 2012	2		FY 2013 Base	<b>!</b>		FY 2013 OCO	3		FY 2013 Total	
Sec Army Active	Qua						-			-			-			-			1.54

UNCLASSIFIED
Page 3 of 3

Exhibit P-40, Budget Item Justification Sheet: PB 2013 Army

**Date:** February 2012

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2032A: Missile Procurement, Army / BA 5: Support Equipment and Facilities / BSA | CA0100 - Production Base Support

10 : Support Equipment & Facilities

ID Code (A=Service Ready, B=Not Service Ready) Program Flements for Code B Items

Other Related Program Elements:

TD OOGE (A=Service Ready, D=Not Service Ready).		i rograi	ii Lieilieilie	or code b itt	JIII 3.		Otti	ei itelatea i	rogram Lien	ionio.		
Resource Summary	Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	To Complete	Total
Procurement Quantity (Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	336.325	4.484	5.043	5.200	-	5.200	5.285	5.333	5.364	5.455	0.000	372.489
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	336.325	4.484	5.043	5.200	-	5.200	5.285	5.333	5.364	5.455	0.000	372.489
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	336.325	4.484	5.043	5.200	-	5.200	5.285	5.333	5.364	5.455	0.000	372.489
(The follo	wing Resource	Summary rows	are for informa	tional purposes	only. The corre	esponding budg	et requests are	documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### Gross/Weapon System Unit Cost (\$ in Thousands) **Description:**

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

Project Sch	edule		Prior Years	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Project	Exhibits	ID CD	Total Cost (\$ M)					
Production Support			0.000	4.484	5.043	5.200	0.000	5.200
lowa Army Ammunition Plant			0.000	2.286	2.796	2.879	0.000	2.879
Production Support Equipment Replacement (Missile)	P25			2.286	2.796	2.879		2.879
Redstone Tech Test Center; White Sands Test Center			0.000	2.198	2.247	2.321	0.000	2.321
PIF FOR OTHER	P25		-	2.198	2.247	2.321	-	2.321
Total Gross/Weapon System Cost			0.000	4.484	5.043	5.200	0.000	5.200

**UNCLASSIFIED** Page 1 of 4

	UNCLA	SSIFIED	
Exhibit P-40, Budget Item Justification Sheet: PB 20	13 Army		Date: February 2012
Appropriation / Budget Activity / Budget Sub Activity 2032A: Missile Procurement, Army / BA 5: Support Equipment & Facilities		P-1 Line Item Nomenclat CA0100 - Production Base	
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B It	ems:	Other Related Program Elements:
*For the P17 and P25, the Project column displays a three-level indentation: Pro "Uncategorized" category. For the P26, the Project column displays a two-level i although all P17, P25 and P26 projects are shown in the project schedule, not a example: for the P17, Description, Manufacturer, etc.; for the P25, Narrative Exp Description, Contractor, Maintenance/Recurring/Environmental/Other costs, etc.	ndentation: Project Type (e.g., Inactive P Il projects will have a corresponding exhib planation, Cost Elements, Principle Milest	lants, Inactive Lines at Contractor Plant bit. A P17 or P25 exhibit is only included	s and Inactive Lines at Active Plants), followed by the Facility. Note also that if data beyond the Project Number, Project Title and Cost are included (for
Justification: FY 2013 Base procurement dollars in the amount of \$5.200 million so the Army's missile warhead production capability to eliminate safety			of Army-owned industrial facilities. These funds are essential to sustain

LI CA0100 - Production Base Support Army

P-1 Line #19

Exhibit P-25, Production Sup	port and In	dustrial F	acilities Co	ost Analys	is: PB 201	13 Army		Date: February 2012
Appropriation / Budget Activity 2032A: Missile Procurement, A 10: Support Equipment & Facil	Army / BA 5		•	and Faciliti	ies / BSA	P-1 Line Item Nomenclatu CA0100 - Production Base		
Project Title: Production Supp	ort Equipme	ent Replace	ement (Mis	sile)		Project Number: 6XX5333	Project Cate	gory: Production Support
End Item Supported Model: N	lissile Warh	neads					Annual Capa	city Before / After (1-8-5): /
Cost Element	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	Facility Name: Iowa Army Ammu Facility Location: Middletown, IA	4	
A. Construction Cost	0.899	0.949	-	-	-	Facility Type (GOGO, GOCO, Co	<b>0CO)</b> : GOCO	
B. Equipment Cost	1.023	1.365	2.117	0.000	2.117	Principal Milestones		Month & Year
C. Equipment Installation Cost	0.304	0.414	0.728	0.000	0.728	Concept Design Complete:		
D. Contractor Support Cost	0.060	0.068	0.034	0.000	0.034	Final Design Complete:		Dec 2012
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Project Award: Construction Complete:		Mar 2013 / Apr 2013
F. Other In-House Support Cost	-	-	-	-	-	Equipment Installation Complete:		Oct 2014

Prove Out Begins:

Project

Number

Prove Out Complete:

Title

# Narrative Explanation:

2.286

2.796

2.879

G. Other Costs

**Total Project Cost** 

FY 2013 Base procurement dollars in the amount of \$2.879 million supports numerous efforts at lowa Ammunition Plant. The project will procure and install two computer numerically controlled (CNC) drill machines for drilling the body and retaining ring prior to assembly, a horizontal CNC lathe for machining to final shape pressed explosive warhead billets, and a warhead machining center in one of the explosive storage magazines within Line 4B. It will replace the existing coordinate measuring machine (CMM) in building 4B-22, which is needed to perform precise warhead component measurements, and rehabilitate the vertical test fire framework at FS-6. In addition, this project will reconstruct the existing lighting protection systems in all active explosive area buildings on Line 1, in accordance with applicable Army regulations.

2.879

Page 3 of 4

**Related Projects** 

FY & Appn | Value (\$M)

Compl

Date

**Start Date** 

Facing

Exhibit P-25, Production Sup	•								Date: Feb	,		
<b>Appropriation / Budget Activ</b> 2032A : Missile Procurement, <i>F</i> 10 : Support Equipment & Faci	Army / BA 5		•	and Facilit	ies / BSA		em Nomenclati Production Base					
Project Title: PIF FOR OTHER	र					Project Nu 6XXXXXX		Project Cate	gory: Produ	uction Sur	port	
End Item Supported Model: T	esting of M	issile Syste	ems					Annual Capa	city Before	e / After (	1-8-5): /	
Cost Element	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total		e: Redstone Tech Tation: Huntsville, AL	· ·				
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, C	<b>000)</b> : G0G0				
B. Equipment Cost	2.198	2.247	2.321	0.000	2.321	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Des	ign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final P   Construction	roject Award:		l	Dec 2012 / N	Mar 2013	
F. Other In-House Support Cost	-	-	-	-	-		istallation Complete:		I	Dec 2013		
G. Other Costs	-	-	-	-	-	Prove Out Be	egins:					
Total Project Cost	2.198	2.247	2.321	-	2.321	Prove Out Co	omplete:					
		I						Related	Projects			
						Project						Comp
						Number	Title	FV & ∆nnn	Value (\$M)	Facing	Start Date	Date

#### **Narrative Explanation:**

FY 2013 Base procurement dollars in the amount of \$2.321 million support the following: At RTC, replaces old, unreliable and incapable vibration table and control system with modern equipment used for shock and vibration testing of missile systems. At WSTC, procures a Non-Track Digital Instrumentation System (NTDIS), which is a mobile video broadcast van with equipment capable of near real time viewing, recording, processing, and remote network control of high-speed video data collected at missile launch sites (Non-Track refers to video collected from cameras fixed on tripods not optical tracking instruments, NTDIS does not track missiles).

UNCLASSIFIED