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

February 2016



Army

Justification Book of

Missile Procurement, Army

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The following Justification Books were prepared as a cost of \$1,209,553: Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical & Support Vehicles, Other Procurement Army (OPA) 2 - Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 6, and Budget Activity 7.

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MISSILE PROCUREMENT, ARMY

Appropriation Language

For construction, procurement, production, modification, and modernization of missiles, equipment, including ordnance, ground handling equipment, spare parts, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefore, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, \$2,153,783,000 to remain available for obligation until September 30, 2019, of which \$9,297,000 shall be available for the Army National Guard and Army Reserve.

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

Appropriation 2032A: Missile Procurement, Army

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2	02	10	C53101	MSE Missile	5
3	02	10	C61001	INDIRECT FIRE PROTECTION CAPABILITY INC 2-I, Advance Procurement	18
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5	02	20	C70302	Joint Air-to-Ground MSLS (JAGM)	31
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11	02	30	C65405	MLRS Reduced Range Practice Rockets (RRPR)	76
12	02	30	C88001	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	85

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Appropriation 2032A: Missile Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title Pa	age
13	03	10	C50700	Patriot Mods	89
14	03	10	CA6700	ATACMS MODS	114
15	03	10	C57701	GMLRS MOD	119
16	03	10	C20000	Stinger Mods	124
17	03	10	CE8710	AVENGER MODS	129
18	03	10	C61700	ITAS/TOW Mods	142
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20	03	10	C67501	HIMARS Modifications	156

Appropriation 2032A: Missile Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
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Appropriation 2032A: Missile Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
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23	05	10	CL2000	Items Less Than \$5.0m (Missiles)	172
24	05	10	CA0100	Production Base Support	175

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Line Item Title	Line Item Number	Line #	ВА	BSA Page
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AVENGER MODS	CE8710	17	03	10 129
Air Defense Targets	C93000	22	05	10 167
GMLRS MOD	C57701	15	03	10 119
Guided MLRS Rocket (GMLRS)	C64400	10	02	30 66
HIMARS Modifications	C67501	20	03	10 156
Hellfire Sys Summary	C70000	4	02	20 22
INDIRECT FIRE PROTECTION CAPABILITY INC 2-I, Advance Procurement	C61001	3	02	10 18
ITAS/TOW Mods	C61700	18	03	10 142
Items Less Than \$5.0m (Missiles)	CL2000	23	05	10 172
Javelin (AAWS-M) System Summary	CC0007	7	02	30 43
Joint Air-to-Ground MSLS (JAGM)	C70302	5	02	20 31
Joint Air-to-Ground MSLS (JAGM), Advance Procurement	C70302	6	02	2039
LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	C88001	12	02	30 85
Lower Tier Air and Missile Defense (AMD)	C50016	1	02	10 1
MLRS Mods	C67500	19	03	10 147
MLRS Reduced Range Practice Rockets (RRPR)	C65405	11	02	30 76

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Line Item Title	Line Item Number	Line #	ВА	BSA	Page
MSE Missile	C53101	2	02	10	5
Patriot Mods	C50700	13	03	10	89
Production Base Support	CA0100	24	05	10	175
Spares And Repair Parts	CA0250	21	04	10	164
Stinger Mods	C20000	16	03	10	124
TOW 2 System Summary	C59300	8	02	30	52
TOW 2 System Summary, Advance Procurement	C59300	9	02	30	62

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

11 Jan 2016

Appropriation	FY 2015 (Base & OCO)	FY 2016 Base Enacted	FY 2016 OCO Enacted	FY 2016 Total Enacted
Missile Procurement, Army	1,240,828	1,600,957	37,260	1,638,217
Total Department of the Army	1,240,828	1,600,957	37,260	1,638,217

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 11, 2016 at 14:50:52

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

11 Jan 2016

Appropriation	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Missile Procurement, Army	1,519,966	632,817	2,152,783
Total Department of the Army	1,519,966	632,817	2,152,783

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 11, 2016 at 14:50:52

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

11 Jan 2016

Appropriation: Missile Procurement, Army

Budget Activity	FY 2015 (Base & OCO)	FY 2016 Base Enacted	FY 2016 OCO Enacted	FY 2016 Total Enacted
02. Other Missiles	967,141	1,209,910	37,260	1,247,170
03. Modification of Missiles	226,868	347,304		347,304
04. Spares and Repair Parts	36,930	33,778		. 33,778
05. Support Equipment and Facilities	9,889	9,965		9,965
Total Missile Procurement, Army	1,240,828	1,600,957	37,260	1,638,217

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

11 Jan 2016

Appropriation: Missile Procurement, Army

Budget Activity	FY 2017 Base	FY 2017 OCO	FY 2017 Total
02. Other Missiles	1,061,325	632,817	1,694,142
03. Modification of Missiles	418,085		418,085
04. Spares and Repair Parts	34,487		34,487
05. Support Equipment and Facilities	6,069		6,069
Total Missile Procurement, Army	1,519,966	632,817	2,152,783

P-1C1: FY 2017 Président's Budget (Published Version of PB Position), as of January 11, 2016 at 14:50:52

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

11 Jan 2016

Appropriation: 2032A Missile Procurement, Army

Line	Ident	(Bas	Y 2015 se & OCO)		2016 Enacted		2016 nacted Cost		2016 Enacted y Cost	S e
No Item Nomenclature	Code	Quantit	-	Quantit	cy Cost	Quantity	·	Quantit		
Budget Activity 02: Other Missiles										
Surface-to-Air Missile System				-						
1 Lower Tier Air and Missile Defense (AMD)	A		110,300		115,075				115,075	U
2 MSE Missile .		108	532,605	112	514,946			112	514,946	U
3 INDIRECT FIRE PROTECTION CAPABILITY INC 2-I Advance Procurement (CY)										υ
Air-To-Surface Missile System		•								
4 Hellfire Sys Summary	A	262	36,588	113	27,975	270	37,260	383	65,235.	U
5 Joint Air-To-Ground Msls (JAGM) Less: Advance Procurement (PY)	-			,						U U
						-	~~~~~ *	-		
6 Joint Air-To-Ground Msls (JAGM) Advance Procurement (CY)					27,738				27,738	U
Anti-Tank/Assault Missile Sys			100							
7 Javelin (Aaws-M) System Summary		. 311	72,877	850	168,163			850	168,163	U
8 Tow 2 System Summary Less: Advance Procurement (PY)	Α	1008	(50,368)	1704	(107,509) (-19,984)			1704	(107,509) (-19,984)	U
			50,368		87,525	-			87,525	
9 Tow 2 System Summary Advance Procurement (CY)			19,984							U
10 Guided MLRS Rocket (GMLRS)		768	127,145	1866	251,060			1866	251,060	U
11 MLRS Reduced Range Practice Rockets (RRPR)		2994	17,274	1680	17,428			1680	17,428	U

P-1Cl: FY 2017 President's Budget (Published Version of PB Position), as of January 11, 2016 at 14:50:52

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

11 Jan 2016

Appropriation: 2032A Missile Procurement, Army

Line	Ident	FY 2017 Base			2017 OCO	FY 2017 Total		
No Item Nomenclature	Code	Quanti	ty Cost	Quantit	-	Quantity	y Cost	C -
Budget Activity 02: Other Missiles			,					
Surface-to-Air Missile System		•						
1 Lower Tier Air and Missile Defense (AMD)	A		126,470		-		126,470	σ
2 MSE Missile		85	423,201			85	423,201	U
3 INDIRECT FIRE PROTECTION CAPABILITY INC 2-I Advance Procurement (CY)			19,319				19,319	υ
Air-To-Surface Missile System					•			
4 Hellfire Sys Summary	A	155	42,013	4055	455,830	4210	497,843	U
5 Joint Air-To-Ground Msls (JAGM) Less: Advance Procurement (PY)		. 324	(92,489) (-27,738)	·		324	(92,489) (-27,738)	
			64,751				64,751	
6 Joint Air-To-Ground Msls (JAGM) Advance Procurement (CY)			37,100				37,100	U
Anti-Tank/Assault Missile Sys								
7 Javelin (Aaws-M) System Summary		309	73,508	83	15,567	392	89,075	U
8 Tow 2 System Summary Less: Advance Procurement (PY)	A	595	(64,922)	815	(80,652)	1410	(145,574)	U
			64,922		80,652		145,574	
9 Tow 2 System Summary Advance Procurement (CY)			19,949				19,949	U
10 Guided MLRS Rocket (GMLRS)		1068	172,088	698	75,991	1766	248,079	U
11 MLRS Reduced Range Practice Rockets (RRPR)		1704	18,004			1704	18,004	υ

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 11, 2016 at 14:50:52

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

11 Jan 2016

Appropriation: 2032A Missile Procurement, Army

Line	Ident	FY 2015 (Base & OCO)		cted	FY 2016 OCO Enacted	FY 2016 Total Enacted	s e
No Item Nomenclature	Code	Quantity Cos	·	Cost	Quantity Cost	Quantity Cost	
12 LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS	A				e e		U
Total Other Missiles		967,14		9,910	37,260		
Budget Activity 03: Modification of Missiles		•					
Modifications							
13 Patriot Mods		183,83	38 24	1,883		241,883	U
14 ATACMS MODS	A		2	0,119		20,119	U
15 GMLRS MOD	A		1	8,221		18,221	U
16 Stinger Mods		1,35	55	2,216		2,216	U
17 Avenger Mods		5,61	.1	6,171		. 6,171	U
18 Itas/Tow Mods		19,67	76 1	9,576		19,576	U
19 MLRS Mods		10,38	30 3	5,970		35,970	U
20 Himars Modifications		6,00		3,148		3,148	
Total Modification of Missiles		226,86		7,304		347,304	
Budget Activity 04: Spares and Repair Parts							
Spares and Repair Parts							
21 Spares and Repair Parts		36,93		3,778		33,778	
Total Spares and Repair Parts		36,93		3,778		33,778	
Budget Activity 05: Support Equipment and Facilitie	·S	-					
Support Equipment & Facilities							
22 Air Defense Targets		3,65	57	3,717		3,717	U
P 101 - EV 2017 Procidentia Budget (Published Margion	of DD Dog	ition) of of Ton		34.50.55			

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 11, 2016 at 14:50:52

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

11 Jan 2016

Appropriation: 2032A Missile Procurement, Army

Line	Ident	FY 2017 Base	FY 2017 OCO	7	FY 2017 Total t Quantity Cost		S e
No Item Nomenclature	Code	Quantity Cost	Quantity	Cost	Quantity	Cost	- C
12 LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS	Α			1,777	10	4,777	
Total Other Missiles		1,061,325		2,817		694,142	•
Budget Activity 03: Modification of Missiles							
Modifications							
13 Patriot Mods		197,107			:	197,107	U
14 ATACMS MODS	A	150,043			:	150,043	U
15 GMLRS MOD	A	395				395	U
16 Stinger Mods							U
17 Avenger Mods		33,606				33,606	U
18 Itas/Tow Mods		383				383	U
19 MLRS Mods		34,704				34,704	U
20 Himars Modifications		1,847				1,847	
Total Modification of Missiles	-					418,085	
Budget Activity 04: Spares and Repair Parts							
Spares and Repair Parts							
21 Spares and Repair Parts		34,487				34,487	
Total Spares and Repair Parts		34,487				34,487	
Budget Activity 05: Support Equipment and Facilities	;						
Support Equipment & Facilities							
22 Air Defense Targets		4,915				4,915	U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 11, 2016 at 14:50:52

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

11 Jan 2016

Appropriation: 2032A Missile Procurement, Army

		FY 2015	FY 2016	FY 2016	FY 2016	S
Line	Ident	(Base & OCO)	Base Enacted	OCO Enacted	Total Enacted	e
No Item Nomenclature	Code	Quantity Cost	Quantity Cost	Quantity Cost	Quantity Cost	C
						-
23 Items Less Than \$5.0m (Missiles)		1,522	1,544		1,544	U
24 Production Base Support		4,710	4,704		4,704	Ū
Total Support Equipment and Facilities		9,889	9,965		9,965	
Total Missile Procurement, Army		1,240,828	1,600,957	37,260	1,638,217	

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 11, 2016 at 14:50:52

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

11 Jan 2016

Appropriation: 2032A Missile Procurement, Army

		FY 2017	FY 2017	FY 2017	S
Line	Ident	Base	oco	Total	е
No Item Nomenclature	Code	Quantity Cost	Quantity Cost	Quantity Cost	C.
		~ -	·	·	-
23 Items Less Than \$5.0m (Missiles)					U
24 Production Base Support		1,154		1,154	U
Total Support Equipment and Facilities		6,069		6,069	
Total Missile Procurement, Army		1,519,966	632,817	2,152,783	

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air

C50016 / Lower Tier Air and Missile Defense (AMD)

Missile System

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

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

.ine Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	e(s): N/A									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	110.300	115.075	126.470	-	126.470	112.888	122.768	150.444	120.542	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	110.300	115.075	126.470	-	126.470	112.888	122.768	150.444	120.542	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	110.300	115.075	126.470	-	126.470	112.888	122.768	150.444	120.542	Continuing	Continuing
(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Lower Tier Air and Missile Defense (AMD) supports the Field Surveillance Program (FSP), PAC-3 Missile Support Center (P3MSC), International Engineering Services Program (IESP), Integrated Logistics Support (ILS), and System Engineering Program Management (SEPM) activities. The mission of the PATRIOT Advanced Capability-3 (PAC-3) Missile Field Surveillance Program (FSP) is required to ensure that the reliability, performance, and safety of fielded PAC-3 missiles remain within the classified system specification for the life of the system. Initial FSP tasks confirmed the quality of design, materials, procedures, and processes used in the manufacture of the system. After missile deployment, results from surveillance firings, inspections, functional tests, Storage and Aging Programs, and depot level missile maintenance processing provide the data required for the assessment of reliability, performance, and safety of the missile stockpile. This includes PAC-3 missile tooling and test equipment. The PAC-3 missile is fielded under the Certified Round Concept. Under this approved concept, the PAC-3 missile is capable of being placed in extended storage as part of war reserve stocks or deployed in operational units for variable periods and then fired without intervening tests or checkouts. In accordance with the Certified Round Concept, the reliability/performance of the missile is certified by the Lower Tier Project Office (LTPO) to be at an acceptable level for a stated period of time.

The certification of reliability is made possible through the use of the PAC-3 Missile Support Center (P3MSC) contract to use technical support and knowledge of the testing of discrete lots of component parts, subassemblies and assemblies which the prime contractor Lockheed Martin Missiles and Fire Control (LMMFC) provides as the only source of technical knowledge, expertise, and facilities to perform FSP activities and process PAC-3 missiles.

The PATRIOT International Engineering Services Program provides continuing engineering support for system software and hardware for the life of the PATRIOT Air Defense System for US and international partners. The Engineering Services Program is designed to sustain, maintain, and improve the PATRIOT system within the performance envelope described in the system specification. The support provided under this program includes PATRIOT software maintenance, Post Deployment Build 8/8.x(PDB-8/8.x), engineering support for PATRIOT peculiar hardware, government furnished equipment, logistics, technical data package, trainers, and integrated diagnostics support system. This is accomplished through the investigation, analysis, and development of solutions to identified problems. Modifications to hardware are engineered for manufacturing implementation and retrofit of fielded hardware through the modification process. The Dismounted Patriot Information Coordination Central (D-PICC) effort is an example of rehosting tactical Patriot software maintained via engineering services to a smaller, more mobile hardware configuration that will allow flexible, tailorable deployment options by freeing up Battalion level ICC's.

Procurement funded systems engineering and project management support the PATRIOT Weapon System. This support encompasses the overall planning, direction, and control of the production of the system/ program, including functions of logistics engineering and Integrated Logistics Support (ILS) management, e.g., maintenance support, facilities, personnel, training, testing, and fielding.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air

C50016 / Lower Tier Air and Missile Defense (AMD)

Missile System

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

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

Secondar	ry Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	110.300	115.075	126.470	-	126.470	112.888	122.768	150.444	120.542
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	110.300	115.075	126.470	-	126.470	112.888	122.768	150.444	120.542

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air

C50016 / Lower Tier Air and Missile Defense (AMD)

Missile System

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

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits CD	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)				
P-5	C50016 / Lower Tier Air and Missile Defense (AMD)		- / -	- / 110.300	- / 115.075	- / 126.470	- / -	- / 126.470
P-40	Total Gross/Weapon System Cost		- 1 -	- / 110.300	- / 115.075	- / 126.470	- 1 -	- /126.470

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

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

Justification:

FY17 base procurement dollars in the amount of \$126.470 million supports the Field Surveillance Program (FSP), PAC-3 Missile Support Center (P3MSC), International Engineering Services Program (IESP), Integrated Logistics Support (ILS), and System Engineering Program Management (SEPM) activities.

Funds in the program were realigned in FY2015 from C53101 (MSE) to reflect those requirements that are not unique to MSE.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost				-											ebruary 2				
Appropriation / B 2032A / 02 / 10	Budget A	ctivity /	Budget	: Sub Activ	vity:	l l		n Numbe ver Tier A		: 1issile Def	fense (A	MD)	Item Number / Title [DODIC]: C50016 / Lower Tier Air and Missile Defense (AMD)						
ID Code (A=Service Read	dy, B=Not Servi	ce Ready):							М	DAP/MAIS	Code:								
F	Resource	Summ	nary		F	Prior Yea	ars	FY 20)15	FY 2	2016	FY	2017 Bas	e F	Y 2017 (ОСО	FY 2017	7 Total	
Procurement Quantity (Uni	its in Each)						-		-					-		-		-	
Gross/Weapon System Co	ost (\$ in Million	s)					-		110.300		115.0	75	126	6.470		-		126.4	
Less PY Advance Procure	ement (\$ in Mil	lions)					-		-					-		-	-		
Net Procurement (P-1) (\$	in Millions)						-		110.300		115.0	75	126	6.470		-		126.4	
Plus CY Advance Procure	ment (\$ in Mill	lions)					-		-		-			-		-		-	
Total Obligation Authorit	ty (\$ in Millions	;)					-		110.300		115.0	75	126	6.470		-		126.4	
(Ti	he following F	Resource S	Summary ro	ws are for inforr	national pu	urposes only	. The corre	sponding bud	lget request	s are docume	nted elsew	here.)				·			
Initial Spares (\$ in Millions)							-		-					-		-		-	
Gross/Weapon System Ur	nit Cost (\$ in 7	Thousands)					-		-					-		-		-	
Note: Subtotals or Totals i	n this Exhibit	P-5 may n	ot be exact	or sum exactly	due to rou	 ınding.							-						
	_	Prior Year	_		Y 2015			FY 2016		FY	2017 Bas	se	FY	2017 OC	0	F	Y 2017 Tot	tal	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	
Flyaway Cost	, ,		, ,	, , ,	, ,	, ,	, ,	, , , ,	(,)	(,)	(, , ,		(,)	(, , ,	(,)	, ,	() ,	, ,	
Recurring Cost																			
Field Surveillance Program	-	-	-	-	-	15.000	-	-	15.000	-	-	16.500	-	-	-	-	-	16.5	
P3MSC	-	-	-	-	-	6.400	-	-	5.500	-	-	10.500	-	-	-	-	-	10.5	
International Engr Services Program	-	-	-	-	-	55.200	-	-	56.800	-	-	59.500	-	-	-	-	-	59.5	
System Engineering/ Project Management	-	-	-	-	-	9.000	-	-	9.200	-	-	9.600	-	-	-	-	-	9.6	
Logistics Recurring	-	-	-	-	-	24.700	-	-	28.575	-	-	30.370	-	-	-	-	-	30.3	
Subtotal: Recurring Cost	-	-	-	-	-	110.300	-	-	115.075	-	-	126.470	-	-	-	-	-	126.4	
Subtotal: Flyaway Cost Gross/Weapon System Cost	-	-	-	-	-	110.300	-	-	115.075	-	-	126.470 126.470	-	-	-	-	-	126.4	
Cost																			
	Sec	ondary D	istributio	n			FY	2015		FY 2016		FY 2 Bas			FY 2017 OCO		FY 20 ⁻ Tota		
Army			antity						-		-		-			-			
Total			al Obligation	Authority				110.3	_		115.075		126.470)		-		126.4	
Total: Secondary Distribution		-	antity al Obligation	Authority				110.3	-		115.075		126.470)		-		126.4	
	- : •:			(44.5-			11	NOL AC	CILILL										
I C50016 - Lower	Tier Air a	and Mis	sile Defe	ense (AMD)		U	NCLAS	SILIEL	,							,		

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Army

P-1 Line #1

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air

C53101 / MSE Missile

Missile System

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

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604865A, 0603869A,

0604869A, 0605456A

Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): 492

Line item MDAF/MAIS Code. N/A	Itelli MiD	AF/IVIAIS COU	C(3). 432									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	92	108	112	85	-	85	93	95	95	95	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	778.722	532.605	514.946	423.201	-	423.201	459.040	497.009	529.839	520.513	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	778.722	532.605	514.946	423.201	-	423.201	459.040	497.009	529.839	520.513	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	778.722	532.605	514.946	423.201	-	423.201	459.040	497.009	529.839	520.513	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	8,464.370	4,931.528	4,597.732	4,978.835	-	4,978.835	4,935.914	5,231.674	5,577.253	5,479.084	Continuing	Continuing

Description:

The Missile Segment Enhancement (MSE) missile evolved from the PATRIOT Advanced Capability 3 (PAC-3) missile. The MSE is based on the PAC-3 Cost Reduction Initiative (CRI) missile design and improves on it for 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 and coupled with critical ground system improvements (Radar Digital Processor (RDP) and Software) to provide a substantial missile performance improvement while enhancing Insensitive Munitions (IM) compliance. A more IM compliant for the SRM was 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 was developed to integrate with the PATRIOT system for the U.S. and international partners.

				FY 2017	FY 2017	FY 2017				
Secondar	ry Distribution	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	108	112	85	-	85	93	95	95	95
	Total Obligation Authority	532.605	514.946	423.201	-	423.201	459.040	497.009	529.839	520.513
Total:	Quantity	108	112	85	-	85	93	95	95	95
Secondary Distribution	Total Obligation Authority	532.605	514.946	423.201	-	423.201	459.040	497.009	529.839	520.513

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P-1 Line #2

				UNCLA	SSIFIED				
Exhib	oit P-40, Budget Line Item J	lustification: PB 20)17 Army				Date: F	ebruary 2016	
2032	opriation / Budget Activity / A: Missile Procurement, Army le System			10: Surface-to-Air	P-1 Line Item I C53101 / MSE	Number / Title: Missile			
ID Cod	le (A=Service Ready, B=Not Service Ready):		Program E	lements for Code B It	ems: N/A		r Related Program E 869A, 0605456A	lements: 0604865A,	0603869A,
Line It	em MDAP/MAIS Code: N/A	Item MDAP/MAIS C	Code(s): 492						
	Exhibits So	chedule		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	s	Subexhibits CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)
P-5	C53101 / MSE Missile	P-(5a, P-21	92 / 778.722	108 / 532.605	112 / 514.946	85 / 423.201	- / -	85 / 423.201
P-40	Total Gross/Weapon System Cost			92 / 778.722	108 / 532.605	112 / 514.946	85 / 423.201	- 1 -	85 / 423.201
In accordance *Unit p	Y 2017 base procurement dollars in as missile round trainers, empty rour Acquisition Objective (AAO) is 3376. ordance with Section 1815 of the FY stic emergency responses, and provorices reflect an assessed yearly FM ntities will be procured at an optimizar foreign military sales in a buy-to-but	nd trainers, ancillary miss	Authorization Acivil authorities. B missile variant vantage created	3 Missile Support Cent act (P.L. 110-181), this is as. In the event FMS pro	er (P3MSC) and Obs	solescence, and System active and reserve co	em Engineering/Progra omponents of the Armoudgeted missile unit p	am Management (SE/I	od defense missions

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LI C53101 - MSE Missile Army

Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 02 / 10

Date: February 2016

Item Number / Title [DODIC]:

C53101 / MSE Missile

C53101 / MSE Missile

MDAP/MAIS Code: 492

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	92	108	112	85	-	85
Gross/Weapon System Cost (\$ in Millions)	778.722	532.605	514.946	423.201	-	423.201
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	778.722	532.605	514.946	423.201	-	423.201
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	778.722	532.605	514.946	423.201	-	423.201
(The following Resource Summary rows are for informat	ional purposes only. The cor	responding budget requests	are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	8,464.370	4,931.528	4,597.732	4,978.835	-	4,978.835

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

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

	P	rior Years	;		FY 2015			FY 2016		FY	' 2017 Bas	e	FY	2017 OC	0	FY	2017 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
Flyaway Cost		1			1		1	Į.			'							
Recurring Cost																		
Missile Hardware ^(†)	4,673.989	92	430.007	4,425.000	108	477.900	3,940.009	112	441.281	4,266.682	85	362.668	-	-	-	4,266.682	85	362.6
Field Surveillance	-	-	25.900	-	-	2.600	-	-	2.900	-	-	5.427	-	-	-	-	-	5.4
PAC-3 Missile Support Center (P3MSC)	-	-	12.000	-	-	1.600	-	-	1.600	-	-	3.600	-	-	-	-	-	3.6
Obsolescence	-	-	20.500	-	-	18.005	-	-	16.700	-	-	10.833	-	-	-	-	-	10.8
Launcher Station (LS) Mods	-	-	13.300	-	-	5.900	-	-	5.900	-	-	-	-	-	-	-	-	
Heater Kits	-	-	2.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Msl Round Trainer / Empty Round Trainer	-	-	56.800	-	-	11.100	-	-	30.726	-	-	18.600	-	-	-	-	-	18.6
Initial Production Facilitization	-	-	88.313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Government/Software Engineering	-	-	-	-	-	6.200	-	-	6.340	-	-	9.440	-	-	-	-	-	9.4
Sys Engrg/Proj Mgmt (SE/PM) Contractor	-	-	129.403	-	-	9.300	-	-	9.499	-	-	12.633	-	-	-	-	-	12.6
Subtotal: Recurring Cost	-	-	778.723	-	-	532.605	-	-	514.946	-	-	423.201	-	-	-	-	-	423.2
Subtotal: Flyaway Cost	-	-	778.723	-	-	532.605	-	-	514.946	-	-	423.201	-	-	-	-	-	423.2
Gross/Weapon System Cost	8,464.370	92	778.722	4,931.528	108	532.605	4,597.732	112	514.946	4,978.835	85	423.201	-	-	-	4,978.835	85	423.20

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LI C53101 - MSE Missile Army

P-1 Line #2

7

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: C53101 / MSE Missile	Item Number / Title [DODIC]: C53101 / MSE Missile
ID Code (A Comica Books B Not Comica Books)	MDAP/MAIS Codo: 402	

ID Code (A=Service Ready, B=Not Service Ready	у).		WIDAP/WAIS COUE	9: 49Z		
Secondary	/ Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	108	112	85	-	85
	Total Obligation Authority	532.605	514.946	423.201	-	423.201
	Quantity	108	112	85	-	85
Secondary Distribution	Total Obligation Authority	532.605	514.946	423.201	-	423.201

^(†) indicates the presence of a P-5a

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P-1 Line #2

Exhibit P-5a, Procurement History and Planning: PB 2017	Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 10	C53101 / MSE Missile	C53101 / MSE Missile

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Revision	RFP Issue Date
Missile Hardware ^(†)		2014	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Mar 2014	Jun 2015	92	4,674.000	Y		Oct 2013
Missile Hardware ^(†)		2015	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Mar 2015	Jun 2016	108	4,425.000	Υ		May 2014
Missile Hardware ^(†)		2016	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Dec 2015	Jun 2017	112	3,940.009	Υ		May 2014
Missile Hardware ^(†)		2017	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Dec 2016	Jun 2018	85	4,266.682	Y		May 2014

^(†) indicates the presence of a P-21

Remarks:

Delivery dates in excess of PLT of 17 months from Award is due to a mandated change in contract type from FFP to FPIF on an undefinitized contract action.

LI C53101 - MSE Missile
Army

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Ex	chi	bit P	9-21, Pr	oducti	on Sc	hedu	le: PE	3 201	7 Arm	ıy														Date	: Feb	ruary	2016	6			
			i ation / 02 / 10	Budge	et Acti	vity /	Budç	get S	ub Ac	tivity	:	1	Line 3101 <i>I</i>				Title:								Num 101 /)IC]:		
				lements in Each)								Fiscal Y	ear 2014											Fiscal Ye	ear 2015						ВА
					ACCEPT			Calendar Year 2014										Calen	dar Year	r 2015] 🖟							
0 0	R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2013	BAL DUE 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	N J	n 1	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 N	J	A U G	S E P	A N C E
Mis	ssile	Hardwa	are					,	<u>'</u>									,	,		,						'	,			
	1	2014	ARMY	92	-	92						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	4	-	76
	1	2015	ARMY	108	-	108													,	,				Α -	-	-	-	-	-	-	108
	1	2016	ARMY	112	-	112																									112
	1	2017	ARMY	85	-	85																									85
,							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	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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E	(hi	bit P	P-21, Pro	oducti	on Sc	hedu	le: P	B 201	7 Arm	าy														Date	e: Feb	ruary	2016				
	-	-	i ation / 1 02 / 10	Budge	et Acti	vity /	Bud	get S	ub Ac	tivity	:	1	Line 3101 /				Title:										Title Missil		IC]:		
				ements n Each)								Fiscal Y	ear 2016											Fiscal Y	ear 2017						В
					ACCEPT									С	alendar	Year 201	6								Caler	dar Year	2017				L
0 0 0	M F R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2015	BAL DUE 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	N N	J J	A U G	O E P	O C T	N O V	D E C	NVC	F E B	M A R	A P R	M A Y	J U	r c c	A U G	S E P	A N C E
Mis	ssile	Hardwa	are		'						,		· · · ·											,							
	1	2014	ARMY	92	16	76	-	-	-	-	16	18	20	22																	-
	1	2015	ARMY	108	-	108	-	-	-	-	-	-	-	-	10	8	10	8	10	8	10	8	10	8	10	8					-
	1	2016	ARMY	112	-	112			Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	10	72
	1	2017	ARMY	85	-	85															Α -	-	-	-	-	-	-	-	-	-	85
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exh	ibit F	P-21, Pro	oducti	on Sc	hedul	e: PE	2017	7 Arm	y														Date	e: Feb	oruary	2016	3		
		iation / 1 02 / 10	Budge	t Acti	vity /	Budg	et Su	ıb Act	tivity:		1		Item / MSE			Title:									nber / MSE			DIC]:	
			ements n Each)							F	iscal Y	ear 2018											Fiscal Y	ear 2019					
T.,				ACCEPT									C	alendar	Year 20	18								Caler	ndar Year	2019			
M F R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2017	BAL DUE 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	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
issile	Hardw	are			,																								
1	2014	ARMY	92	92	-																								
1	2015	ARMY	108	108	-																								
1	2016	ARMY	112	40	72	10	10	10	10	10	10	10	2																
1	2017	ARMY	85	-	85	-	-	-	-	-	-	-	-	12	12	11	10	10	10	10	10								
<u>ٺ</u>						O C	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E P	O C T	N O	D E C	J A	F E	M A	A P	M A	Ŋ	J	A U	S E

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Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
, , , , , , , , , , , , , , , , , , ,	Item Number / Title [DODIC]: C53101 / MSE Missile

		Produc	ction Rates (Each	/ Year)				Procurement Lea	adtime (Months)			
MFR						Ini	tial			Reo	rder	
Ref #	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	LMMFC - Dallas, TX	72	240	360	-	6	17	23	-	6	17	23

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System

C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Item MDAP/MAIS Code(s): 473

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Gross/Weapon System Cost (\$ in Millions)	-	-	-	19.319	-	19.319	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	19.319	-	19.319	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	19.319	-	19.319	-	-	-	-	-	-

Description:

This program supports the overall Air and Missile Defense (AMD) architecture and provides a robust intercept capability against Cruise Missiles (CM), Unmanned Aircraft System (UAS) and Rocket, Artillery, and Mortar (RAM) threats for deployed forces. The Indirect Fire Protection Capability Increment 2 - Intercept (IFPC Inc 2-I) is a ground-based weapon system that will be designed to acquire, track, engage, and defeat UAS, CM, and RAM. The System will provide 360-degree protection and will simultaneously engage threats arriving from different azimuths. A block acquisition approach will be used to provide this capability. The Block 1 system will consist of an existing interceptor and sensor and development of fire control software and a Multi-Mission Launcher (MML) to support the UAS and CM mission. The IFPC Inc 2-I System will be compatible with the Army Integrated Air and Missile Defense (IAMD) Command and Control (C2) architecture. The IFPC Inc 2-I System will be transportable by Army common mobile platforms.

This budget line funds the acquisition of long-lead items required to support the production of the IFPC-Inc2-I system.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air

C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I

Missile System

Other Related Program Elements: N/A

Program Elements for Code B Items: N/A

Line Item MDAP/MAIS Code: N/A

Item MDAP/MAIS Code(s): 473

	Exhibits Schedule		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-10	IFPC INC 2-I BLOCK 1 SYSTEM		- / -	- / -	- / -	- / 19.319	- / -	- / 19.319
P-40	Total Gross/Weapon System Cost		- 1 -	- 1 -	- 1 -	- / 19.319	- 1 -	- / 19.319

^{*}Title represents the P-10 Title for Advance Procurement.

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

Justification:

FY 2017 Base procurement dollars in the amount of \$19.319 million support the acquisition of long-lead items required for the production of twelve (12) Multi-Mission Launchers (MMLs) beginning in the 4th quarter of FY 2018. Up to six (6) MMLs will be produced in the first lot of Low-Rate Initial Production (LRIP) for fielding; up to six (6) test assets will be refurbished to production representative configuration for fielding. FY 2017 funding is Advance Procurement.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-81), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-10, Advance Procurement Requ	rements Analysis	(page 1 -	Budget Funding Just	ification): PB 2017 Army	Date: February 20)16
Appropriation / Budget Activity / Budget S 2032A / 02 / 10	ub Activity:		Item Number / Title: INDIRECT FIRE PROT	ECTION	I CAPABILITY INC	Item Number / Tit C 2- C62002 / IFPC IN SYSTEM	
MDAP/MAIS Code: 473			· · · · · · · · · · · · · · · · · · ·			•	
First System (2017) Award Date: First S June 2017 July 20	ystem (2017) Complet	tion Date:			Interval Between Sys 12 Months	tems:	
IFPC INC 2-I BLOCK 1 SYSTEM	Production Le	adtime	Prior Years (Each)		FY 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)
Quantity			-		-	-	-
Cost Elements	When Requ	ired	Prior Years (\$ M)		FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)
Other							
eTalin 4000		12	-		-	-	0.65°
Weapon Interface Unit (WIU)		12	-		-	-	0.783
Rails		12	-		-	-	10.66
Weapon Control Unit(WCU)		12	-		-	-	2.700
Common Power Supply (CPS)		12	-		-	-	0.450
Launch Control Unit (LCU)		12	-		-	-	0.450
SEPM		12	-		-	-	3.620
Total: Other			-		-	-	19.31
Total Advance Procurement/Obligation Authority			-		-	-	19.319

Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 02 / 10

P-1 Line Item Number / Title:

C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2- SYSTEM

C62002 / IFPC INC 2-I BLOCK 1 SYSTEM

				FY 2	017		
Cost Elements	QPA (Each)	Production Leadtime (Months)	Unit Cost	Contract Forecast Date	2017 Qty (Each)	For FY	Total Cost Request (\$ M)
Other							
eTalin 4000	1	13	93.000	Feb 2017	7		0.651
Weapon Interface Unit (WIU)	1	12	87.000	Feb 2017	9		0.783
Rails	15	12	79.000	Feb 2017	135		10.665
Weapon Control Unit(WCU)	15	12	20.000	Feb 2017	135		2.700
Common Power Supply (CPS)	1	12	50.000	Feb 2017	9		0.450
Launch Control Unit (LCU)	1	12	50.000	Feb 2017	9		0.450
SEPM	1	12	301.667	Feb 2017	12		3.620
Total: Other							19.319
Total Advance Procurement/Obligation Authority							19.319

Description:

N/A

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface C70000 / Hellfire Sys Summary

Missile System

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

Program Elements for Code B Items: N/A Other Related Program Elements: 0203802A, 0210109A

Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): 355

Line Item MDAP/MAIS Code: N/A	Item MD	AP/IVIAIS Cod	e(s): 355									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	63,134	262	383	155	4,055	4,210	178	165	-	-	-	68,332
Gross/Weapon System Cost (\$ in Millions)	3,535.276	36.588	65.235	42.013	455.830	497.843	41.837	39.838	3.325	-	-	4,219.942
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,535.276	36.588	65.235	42.013	455.830	497.843	41.837	39.838	3.325	-	-	4,219.942
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,535.276	36.588	65.235	42.013	455.830	497.843	41.837	39.838	3.325	-	-	4,219.942
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	_
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	55.996	139.649	170.326	271.052	112.412	118.252	235.039	241.442	-	-	-	61.756

Description:

The Laser HELLFIRE II and HELLFIRE Longbow air-to-ground missiles (all variants) provide 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) except HELLFIRE Longbow which has a millimeter wave seeker. HELLFIRE II procurement funding supports the entire HELLFIRE II and HELLFIRE Longbow systems to include resolution of obsolescence, safety, insensitive munitions, 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.

				FY 2017	FY 2017	FY 2017				
Secondary	y Distribution	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	262	383	155	4,055	4,210	178	165	-	-
	Total Obligation Authority	36.588	65.235	42.013	455.830	497.843	41.837	39.838	3.325	-
Total:	Quantity	262	383	155	4,055	4,210	178	165	-	-
Secondary Distribution	Total Obligation Authority	36.588	65.235	42.013	455.830	497.843	41.837	39.838	3.325	-

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface C70000 / Hellfire Sys Summary

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203802A, 0210109A

Line Item MDAP/MAIS Code: N/A

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

Item MDAP/MAIS Code(s): 355

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-5	C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)	P-5a, P-21		63,134 / 3,535.276	262 / 36.588	383 / 65.235	155 / 42.013	4,055 / 455.830	4,210 / 497.843
P-40	Total Gross/Weapon System Cost			63,134 / 3,535.276	262 / 36.588	383 / 65.235	155 / 42.013	4,055 / 455.830	4,210 / 497.843

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

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

Justification:

FY 2017 Base procurement dollars in the amount of \$42.013 million support the procurement of 155 HELLFIRE II missiles.

FY 2017 OCO procurement dollars in the amount of \$455.830 million supports the procurement of:

- 1.422 Missiles in support of the War Reserve shortage (\$169.218M)
- 1,148 Missiles to be replaced based on combat expenditures through June 2015 (\$136.612M)

(includes: 323 Pre-deployment training expenditures; 189 Ongoing AFG Operations; 636 Ongoing IRQ Operations)

- 1.485 Missiles FY17 Base-to-OCO Requirement (\$150.000M)

The Army intends to convert any price advantage created through contract negotiations, other service procurement and/or Foreign Military Sales (FMS) into a buy-to-budget procurement strategy.

The historical Army Acquisition Objective was 34,292.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.

							Ur	NCLASS	SIFIEL	•								
Exhibit P-5, Cost	Analysis	: PB 20	17 Army	,									I	Date: Fe	bruary 2	2016		
Appropriation / B 2032A / 02 / 20					vity:			Number fire Sys S						C70100			DIC]: RE MSL	
ID Code (A=Service Read	dy, B=Not Service	e Ready):				I			М	DAP/MAIS	Code: 3	55	I	<u> </u>				
ı	Resource	Summa	ary			Prior Yea	ars	FY 20 ²	15	FY	2016	FY 2	2017 Bas	e F	Y 2017 (СО	FY 2017	Total
Procurement Quantity (Un	its in Each)						63,134		262		38	3		155		4,055		4,21
Gross/Weapon System C	ost (\$ in Millions	;)				3,	,535.276		36.588		65.23	5	42	2.013		455.830		497.84
Less PY Advance Procure							-		-		-			-		-		-
Net Procurement (P-1) (\$	in Millions)					3,	,535.276		36.588		65.23	5	42	2.013		455.830		497.84
Plus CY Advance Procure	ment (\$ in Milli	ons)					-		-		-			-		-		-
Total Obligation Authori	ty (\$ in Millions)					3,	,535.276		36.588		65.23	5	42	2.013		455.830		497.84
(T	he following R	esource Su	ımmary row	s are for info	rmational p	urposes only	. The corres	ponding budg	et request	s are docum	ented elsewl	ere.)						
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System U	nit Cost (\$ in Ti	housands)					55.996		139.649		170.32	6	271	.052		112.412		118.25
Note: Subtotals or Totals	n this Exhibit	P-5 may no	t be exact o	r sum exactly	y due to rou	unding.												
	P	rior Years	3		FY 2015	_		FY 2016		FΥ	2017 Bas	е	FY	2017 OC	0	F'	2017 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	. ,	, ,	,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,	, ,			,,,,	V. ,	, ,	,	, , , ,	, ,	, ,	, ,	, ,	<u> </u>
Recurring Cost																		
All-up Rounds ^(†)	48.000	63,134	3,030.432	86.000	262	22.532	122.000	383	46.726	101.000	155	15.655	101.000	4,055	409.555	101.000	4,210	425.21
Engineering Services	-	-	112.646	-	-	1.878	-	-	3.493	-	-	1.859	-	-	8.579	-	-	10.43
Fielding	-	-	29.225	-	-	0.368	-	-	0.759	-	-	0.254	-	-	6.647	-	-	6.90
Acceptance Testing	-	-	52.275	-	-	0.066	-	-	0.136	-	-	0.046	-	-	1.189	-	-	1.23
Project Mgt Admin Production	-	-	75.357	-	-	5.130	-	-	5.660	-	-	4.528	-	-	9.736	-	-	14.26
Engineering Support	-	-	235.341	-	-	6.614	-	-	8.461	-	-	19.671	-	-	20.124	-	-	39.79
Subtotal: Recurring Cost	-	-	3,535.276	-	-	36.588	-	-	65.235	-	-	42.013	-	-	455.830	-	-	497.84
Subtotal: Flyaway Cost	-	-	3,535.276	-	-	36.588	-	-	65.235	-	-	42.013	-	-	455.830	-	-	497.84
Gross/Weapon System Cost	55.996	63,134	3,535.276	139.649	262	36.588	170.326	383	65.235	271.052	155	42.013	112.412	4,055	455.830	118.252	4,210	497.84
	Seco	ondary Di	stribution				FY	2015		FY 2016		FY 2 Bas		I	FY 2017 OCO		FY 201 Total	7
Army		Qua	ntity					26	2		383		155	5		4,055		4,21
		Tota	l Obligation A	uthority				36.58			65.235		42.013		-	155.830		497.84
Total: Secondary Distribution		Qua						26:			383		155			4,055		4,21
Occomulary Distribution		Tota	l Obligation A	Authority				36.58	3		65.235		42.013	3	4	155.830		497.84

LI C70000 - Hellfire Sys Summary Army

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P-1 Line #4

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20	P-1 Line Item Number / Title: C70000 / Hellfire Sys Summary	Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 35	55
ID Code (A=Service Ready, B=Not Service Ready): (†) indicates the presence of a P-5a	MDAP/MAIS Code: 35	I .

Exhibit P-5a, Procurement History and Planning: PB 2017	Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20	P-1 Line Item Number / Title: C70000 / Hellfire Sys Summary	Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
All-up Rounds ^(†)		2015	HELLFIRE Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	Sep 2015	Sep 2017	262	86.000	Υ		Dec 2013
All-up Rounds ^(†)		2016	HELLFIRE Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	Sep 2016	Sep 2018	113	175.000	Υ		Dec 2013
All-up Rounds ^(†)		2016	HF Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	Sep 2016	Sep 2018	270	121.000	Υ		Dec 2013
All-up Rounds ^(†)		2017	HELLFIRE Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	Sep 2017	Sep 2019	155	107.000	Y		Dec 2013
All-up Rounds ^(†)		2017	HF Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	Sep 2017	Sep 2019	4,055	101.000	Υ		Dec 2013

^(†) indicates the presence of a P-21

Remarks:

Army

Firm Fixed Price (FFP)

The production unit cost is based on all Services' base and Overseas Contingency Operations (OCO) quantity requirements known at this time. Quantities include United States Air Force procurement, United States Navy procurement of tactical missiles and United States Army procurement of Hellfire II AGM-114R missiles.

See Exhibit P-5 for Unit Cost. Unit cost may change based on quantities procured by all Services and Foreign Military Sales (FMS) customers.

Based on contract structure all customers pay the same Unit Cost for the same configuration.

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	ibi	t P-21, P	roducti	ion Sc	hedul	le: PB	201	7 Arm	ıy														Date	e: Feb	ruary	/ 2010	3			
		priation <i>1</i> 02 <i>1</i> 20	Budge	et Acti	vity /	Budg	et Sı	ub Ac	tivity	:		1 Line 0000 <i>i</i>											C70	Num 100 / SIC/IH	LASE	ER HE	[DOI	DIC]: RE M	SL	
			Elements s in Each)	T							Fiscal Y	ear 2015)											Fiscal Y	ear 2016						В
M O F C R	1	Y SERVICI	PROC E QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE 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	015 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	A N C E
All-up	Rou	nds										_								-										
Prior	Years	s Deliveries: 63	134																											
_	+	15 ARMY	262	-	262	_											Α -	-	-	-	-	-	-	-	-	-	-	-	-	26
1	20	15 FMS ^(‡)	2,692	-	2,692	_											Α -	-	-	-	-	-	-	-	-	-	-	-	-	2,69
1	20	15 AF ^(‡)	4,000	-	4,000												Α -	-	-	-	-	-	-	-	-	-	-	-	-	4,00
1	20	15 Total	6,954	-	6,954												-	-	-	-	-	-	-	-	-	-	-	-	-	6,9
1	20	16 ARMY (I)	113	-	113																									1.
1	20	16 FMS ^{(‡) (II)}	1,332	-	1,332																									1,33
1	20	16 AF ^(‡)	5,567	-	5,567																									5,56
1	20	16 Total	7,012	-	7,012	_																								7,0
2	20	16 ARMY (V)	270	-	270																									2
1	20		155	-	155																									15
1	20	17 FMS (‡) (I\	1,000	-	1,000	_																								1,00
_		17 AF ^(‡)	1,613	_	1,613																									1,6
_	20		2,768	_	2,768	_																								2,70
		17 ARMY (VI)		_	4,055	_																								4,0
	20	TI ARIVIT	4,000		4,000	0 C	N O	D E	J	F E	M	A P	M	J	J	A	S E	0	N O	D E	J	F E	M	A P	M	J	J	A U	S E	1,00
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Exh	ibit F	P-21, Pro	oducti	on Sc	hedul	e: PE	3 201	7 Arm	ıy														Date	: Feb	ruary	2016				
		i ation / I 02 / 20	Budge	t Acti	vity /	Budg	jet Sı	ıb Ac	tivity	:		Line 0000 /											C70 ²	Num 100 / I SIC/IH	LASE	R HE			SL	
		Cost El (Units i									Fiscal Y	ear 2017				_							Fiscal Ye							В
M O F C R		SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE 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	Year 201 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	A N C E
All-up	Rounds	,										,							,						1	,				
Prior	Years De	eliveries: 6313																												
-	2015	-	262	-	262	-	-	-	-	-	-	-	-	-	-	-	22	22	22	22	22	22	22	22	22	22	21	21		<u> </u>
1	2015		2,692	-	2,692	-	-	-	-	-	-	-	-	-	-	-	225	225	225	225	224	224	224	224	224	224	224	224		Ŀ
1	2015	AF ^(‡)	4,000	-	4,000	-	-	-	-	-	-	-	-	-	-	-	333	334	334	334	334	333	333	333	333	333	333	333		
1	2015		6,954	-	6,954	-	-	-	-	-	-	-	-	-	-	-	580	581	581	581	580	579	579	579	579	579	578	578		
1	2016		113	-	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
1	2016	FMS (‡) (II)	1,332	-	1,332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111	1,2
1	2016	AF ^(‡)	5,567	-	5,567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	464	5,1
1	2016	Total	7,012	-	7,012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	585	6,4
2	2016	ARMY (V)	270	-	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	24
1	2017	ARMY (III)	155	-	155												Α -	-	-	-	-	-	-	-	-	-	-	-	-	15
1	2017	FMS (‡) (IV)	1,000	-	1,000												Α -	-	-	-	-	-	-	-	-	-	-	-	-	1,00
1	2017	AF ^(‡)	1,613	-	1,613												Α -	-	-	-	-	-	-	-	-	-	-	-	-	1,6
1	2017	Total	2,768	-	2,768											-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,76
2	2017	ARMY (VI)	4,055	-	4,055												Α -	-	-	-	-	-	-	-	-	-	-	-	-	4,05
		1				O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
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								7 Arm	*																ruary					
		iation / I)2 / 20	Budge	t Activ	vity / ˈ	Budg	et Su	ıb Act	ivity:			Line 1 1000 /					/						C70 ²	100 <i>I</i>	ber / LASE IW/HF	R HE			SL	
		Cost El (Units i								ı	Fiscal Ye	ar 2019										F	Fiscal Ye	ar 2020						
				ACCEPT									С	alendar	Year 201	9								Calen	dar Year	2020				
M F R P H	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2018	BAL DUE 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	
All-up R										I																				
rior Ye	ears De	eliveries: 6313	4																											
1	2015	ARMY	262	262	-																									
1	2015	FMS ^(‡)	2,692	2,692	-																									
1	2015	AF ^(‡)	4,000	4,000	-																									
1	2015	Total	6,954	6,954	-																									
1	2016	ARMY (I)	113	10	103	10	10	10	10	9	9	9	9	9	9	9														
1	2016	FMS (‡) (II)	1,332	111	1,221	111	111	111	111	111	111	111	111	111	111	111														
1	2016	AF ^(‡)	5,567	464	5,103	464	464	464	464	464	464	464	464	464	464	463														
1	2016	Total	7,012	585	6,427	585	585	585	585	584	584	584	584	584	584	583														
2	2016	ARMY (V)	270	23	247	23	23	23	23	23	22	22	22	22	22	22														
1	2017	ARMY (III)	155	-	155	-	-	-	-	-	-	-	-	-	-	-	13	13	13	13	13	13	13	13	13	13	13	12		
1	2017	FMS (‡) (IV)	1,000	-	1,000	-	-	-	-	-	-	-	-	-	-	-	83	83	83	83	83	83	83	84	84	84	84	83		
1	2017	AF ^(‡)	1,613	-	1,613	-	-	-	-	-	-	-	-	-	-	-	135	135	135	135	135	134	134	134	134	134	134	134		
1	2017	Total	2,768	-	2,768	-	-	-	-	-	-	-	-	-	-	-	231	231	231	231	231	230	230	231	231	231	231	229		
2	2017	ARMY (VI)	4,055	-	4,055	-	-	-	-	-	-	-	-	-	-	-	338	338	338	338	338	338	338	338	338	338	338	337		
					-	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α	S	T
						C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U	U G	E P	

Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20	Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)

		Produc	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)			
MFR						Ir	itial			Reo	rder	
Ref #	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
	HELLFIRE Sys Limited Liability - Orlando	1,200	3,600	8,000	5	-	24	31	5	7	24	31
2	HF Sys Limited Liability - Orlando	1,200	3,600	8,000	6	;	3 24	27	5	3	24	27

^(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Service/Agency Suffixes:

(I) BASE

(II) BASE

(III) BASE

(IV) BASE

(V) OCO

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface C70302 / Joint Air-to-Ground MSLS (JAGM)

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0605450A

Line Item MDAP/MAIS Code: N/A

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

Item MDAP/MAIS Code(s): 355

Line item MDAI /MAIO OCC. N/A	Itelli Mib	AI MIAIO OUC	16(3). 000									
	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	324	-	324	496	1,266	860	1,344	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	-	-	-	92.489	-	92.489	151.804	334.846	227.606	307.370	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	27.738	-	27.738	37.100	75.728	-	-	-	140.566
Net Procurement (P-1) (\$ in Millions)	-	-	-	64.751	-	64.751	114.704	259.118	227.606	307.370	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	27.738	37.100	-	37.100	75.728	-	-	-	-	140.566
Total Obligation Authority (\$ in Millions)	-	-	27.738	101.851	-	101.851	190.432	259.118	227.606	307.370	Continuing	Continuing
(The following	Resource Sum	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	285.460	-	285.460	306.056	264.491	264.658	228.698	Continuing	Continuing

Description:

The Joint Air-to-Ground Missile (JAGM) program is an Army led Major Defense Acquisition Program (MDAP) with joint interest with the U.S. Marine Corps (USMC) and U.S. Navy. JAGM is the next generation of aviation launched fire and forget missiles to replace the HELLFIRE laser and Longbow radar missiles. JAGM will be used by joint service aircraft for destruction of high value stationary, moving and relocatable land and maritime targets from standoff range in day, night, adverse weather, and obscured battlefield conditions.

Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	324	-	324	496	1,266	860	1,344
	Total Obligation Authority	-	27.738	101.851	-	101.851	114.704	259.118	227.606	307.370
Total:	Quantity	-	-	324	-	324	496	1,266	860	1,344
Secondary Distribution	Total Obligation Authority	-	27.738	101.851	-	101.851	114.704	259.118	227.606	307.370

27

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface | C70302 / Joint Air-to-Ground MSLS (JAGM)

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0605450A

Line Item MDAP/MAIS Code: N/A

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

Item MDAP/MAIS Code(s): 355

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-5	C70302 / Joint Air-to-Ground MSLS (JAGM)	P-5a, P-21		- / -	- / -	- / -	324 / 92.489	- / -	324 / 92.489
P-40	Total Gross/Weapon System Cost			- 1 -	- 1 -	- 1 -	324 / 92.489	- 1 -	324 / 92.489

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

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

Justification:

FY 2017 Base procurement dollars in the amount of \$64.751 million provide government engineering support and the procurement of 324 missiles.

FY 2017 Advance Procurement dollars in the amount of \$37.100 million support the procurement of long lead items for JAGM missiles in FY 2018.

The JAGM Product Office is the procurement agent for all services. Army Acquisition Objective is 20,303.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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							UI	NCLAS	SILIE	,								
Exhibit P-5, Cost	Analysis	: PB 20	17 Army	/									I	Date: F	ebruary	2016		
Appropriation / B 2032A / 02 / 20	udget A	ctivity /	Budget	Sub Acti	ivity:		Line Item 302 / Joir			: MSLS (JA	.GM)				I Joint A	Fitle [DO Air-to-Gro		.S
ID Code (A=Service Read	ly, B=Not Servi	ce Ready):							М	DAP/MAIS	Code:	355		<u>, , , , , , , , , , , , , , , , , , , </u>				
F	Resource	Summa	ary		F	Prior Ye	ars	FY 20)15	FY	2016	FY	2017 Bas	e F	Y 2017	осо	FY 2017	Total
Procurement Quantity (Uni							-		_			-		324		-		32
Gross/Weapon System Co		s)					-		_			-	92	2.489		-		92.48
Less PY Advance Procure	•	<u>, </u>					-					-	27	7.738		-		27.73
Net Procurement (P-1) (\$ i	· · · · · · · · · · · · · · · · · · ·						-		_			-	64	.751		-		64.75
Plus CY Advance Procure		ions)					-		_		27.	738		100		-		37.10
Total Obligation Authori							-		-		27.	738	101	.851		-		101.85
(Ti	he following F	Resource Su	ımmary rov	s are for info	rmational p	urposes onl	y. The corres	ponding bud	lget reques	ts are docume	nted else	where.)				<u> </u>		
Initial Spares (\$ in Millions)							-		-			-		-		-		
Gross/Weapon System Ur	nit Cost (\$ in 7	housands)					-		_			-	285	5.460		-		285.46
	-																	
Note: Subtotals or Totals i	n this Exhibit	P-5 may no	t be exact o	or sum exactly	y due to rou	inding.				'			"				-	
	P	rior Years	3		FY 2015			FY 2016		FY	2017 B	ase	FY	′ 2017 O	co	F'	Y 2017 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	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 (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	. , ,			, ,			. ,	, ,								, ,		
Recurring Cost																		
All Up Rounds (AUR) ^(†)	-	-	-	-	-	-	-	-	-	149.451	32	48.422	-	-	-	149.451	324	48.4
Engineering Services	-	-	-	-	-	-	-	-	-	-	-	7.293	-	-	-	-	-	7.29
Project Management Admin	-	-	-	-	-	-	-	-	-	-	-	9.036	-	-	-	-	-	9.03
Guidance Section Long Lead Items	-	-	-	-	-	-	-	-	-	-	-	24.800	-	-	-	-	-	24.8
HELLFIRE Backend Long Lead Items	-	-	-	-	-	-	-	-	-	-	-	2.938	-	-	-	-	-	2.9
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	92.4
Subtotal: Flyaway Cost	-	-	-	-		-	-	-	-	-		92.489	-	-	-	-	-	92.48
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	285.460	32	92.489	-	-	-	285.460	324	92.48
	Sec	ondary Di		l			FY	2015		FY 2016		FY 2 Ba	se		FY 2017 OCO		FY 201 Total	l
Army		Qua	•						-		-		324			-		32
T-4-1.			l Obligation A	uthority					-		27.738		101.851			-		101.85
Total:		Qua	ntity						-		-		324	F		-		32

LI C70302 - Joint Air-to-Ground MSLS (JAGM) Army

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P-1 Line #5

Exhibit P-5, Cost Analysis: PB 2017 Army	Date: February 2016
	Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM)

ID Code (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code: 355 FY 2017 FY 2017 FY 2017

(†) indicates the presence of a P-5a

Secondary Distribution FY 2015 oco FY 2016 Base Total Secondary Distribution **Total Obligation Authority** 92.489 92.489

Exhibit P-5a, Procurement History and Planning: PB 2017	Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JAGM)	Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM)

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
All Up Rounds (AUR) ^(†)		2017	Lockheed Martin / Orlando	C / FPIF	Redstone Arsenal, AL	Sep 2017	Apr 2018	324	149.451	N	71141141010	
Advance Procurement												
Guidance Section LL Items (LRIP 1)		2016	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Apr 2016	Jun 2017	324	77.000			
HELLFIRE Backend LL Items (LRIP 1)		2016	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Apr 2016	Oct 2017	324	9.000			
Guidance Section LL Items (LRIP 2)		2017	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Apr 2017	Jul 2018	496	56.653			
HELLFIRE Backend LL Items (LRIP 2)		2017	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Apr 2017	Jul 2018	496	18.145			

^(†) indicates the presence of a P-21

Remarks:

FY 2017 quantities (LRIP I option) reflect the program's negotiated fixed price contract option (Q31P4Q-15-R-005).

Exhibit P-21, Pi	oduct	ion Sc	hedu	le: PE	3 201	7 Arm	ıy														Date	: Feb	ruary	2016	i			
Appropriation / 2032A / 02 / 20	Budg	et Acti	vity /	Budg	get Sı	ıb Ac	tivity	:		Line 0302					MSLS ((JAG	M)					Num 302 / S SM)					SLS	
	Elements in Each)						,		Fiscal Y	ear 2017			,								Fiscal Y	ear 2018						В
		ACCEPT									C	alendar	Year 201	7								Calend	dar Year	2018				Ĺ
M	PROC QTY	PRIOR TO 1 OCT 2016	BAL DUE 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	N 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	J U N	n n	A U G	S E P	A N C E
All Up Rounds (AUR)					<u>'</u>			,							<u> </u>							,	·					
1 2017 ARMY	324	-	324												Α -	-	-	-	-	-	-	25	25	30	30	35	35	144
	,			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	J U N	J U L	A U G	S E P	

IIDII	t P	-21, Pro	oduct	ion Sc	hedul	e: PE	3 201	7 Arm	ıy														Date	e: Fel	bruary	2016	3		
	-		Budg	et Acti	vity /	Budg	jet Sı	ub Ac	tivity	•	1 - '							(JAG	SM)				C70	302 <i>I</i>					SLS
											Fiscal	Year 201	9										Fiscal Y	ear 2020)				
														Calendar	Year 20	19								Cale	ndar Yea	r 2020			
1	Y	SERVICE	PROC QTY	PRIOR TO 1 OCT 2018	BAL DUE 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	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
p Rou	ınds ((AUR)																											
20	17	ARMY	324	180	144	35	35	35	19	10	10																		
	·					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
1 : 2 :	P Rou	Propries 2A / 0.	cost El (Units i	Cost Elements (Units in Each) FY SERVICE QTY ROUNDS (AUR)	Cost Elements (Units in Each) Cost Elements (Units in Each) ACCEPT PRIOR TO 1 OCT PROC QTY 2018 D Rounds (AUR)	Cost Elements (Units in Each) Cost Elements (Units in Each) ACCEPT PRIOR DO DE PROC OCT AS OF 1 OCT OR ROUNDS (AUR)	Cost Elements (Units in Each)	Cost Elements (Units in Each) ACCEPT PRIOR TO 1 DUE O N N O N	Cost Elements (Units in Each)	Cost Elements (Units in Each)	Cost Elements (Units in Each) ACCEPT PRIOR TO 1 DUE O N D J F FY SERVICE QTY 2018 10CT T V C N B D Rounds (AUR) 2017 ARMY 324 180 144 35 35 35 19 10 C O E A E E C O E A E C O E C O E A E C O E C	P-0 Process P-1 Process P-2 Process P-3 P-3	P-1 Line C70302 C70302	P-1 Line Item C70302 / Join C70302 / Joi	P-1 Line Item Num C70302 / Joint Air-tem C70302 / Joint Air-tem	P-1 Line Item Number / C70302 / Joint Air-to-Group P-1 Line Item Number / C70302 / Joint Air-to-Group	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground N	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JACED Calendar Year 2019 Calendar Year 2019 Calend	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JAGM) Cost Elements (Units in Each) Fiscal Year 2019 Calendar Year 2019	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JAGM) Cost Elements (Units in Each) Fiscal Year 2019	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JAGM) Cost Elements (Units in Each) Fiscal Year 2019	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JAGM) Cost Elements (Units in Each) Fiscal Year 2019 ACCEPT PRIOR DAL TO 1 DUE O N D J F M A M J J A S O N D J F F SERVICE QTY 2018 1 OCT T V C N B R R Y N L G P T V C N B ROunds (AUR) 2017 ARMY 324 180 144 35 35 35 35 19 10 10	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JAGM) C70 C	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JAGM) C70302 / (JAGM) C70302	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JAGM) C70302 / Joint (JAGM) C70302 / Joint Air-to-Ground MSLS (JAGM) C70302 / Joint (JAGM) C70302 / Joint (JAGM) Fiscal Year 2019 Calendar Year 2019 Calendar Year 2020 Calendar Year 2019 Calendar Year 2020 Calendar	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JAGM) Fiscal Year 2020 Fiscal Year 2019 Calendar Year 2020 Fiscal Year 20	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JAGM) Fiscal Year 2020 Fiscal Year 2020 Calendar Year 2019 Calendar Year 2020 CALENDARY C	P-1 Line Item Number / Title: C70302 / Joint Air-to-Ground MSLS (JAGM) C70302 / Joint Air-to-Ground M (JAGM) C70302 / Joint Air-to-Ground M (JAGM) C70302 / Joint Air-to-Ground M (JAGM) Fiscal Year 2019 Fiscal Year 2020 Calendar Year 2019 Calendar Year 2020 Calendar Year 2019 Calendar Year 2020 Calen

Exhibit P-21, Production Schedule: PB 2017 Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20	Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM)

Г			Produc	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)			
	1FR						Ini	tial			Red	rder	
	Ref	Manufacturer		4055	MAY 5	ALT	ALT	Manufacturing	Total	ALT	ALT	Manufacturing	Total
	#	Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	Prior to Oct 1	After Oct 1	PLT	After Oct 1	Prior to Oct 1	After Oct 1	PLT	After Oct 1
	1	Lockheed Martin - Orlando	100	420	420	-	-	-	-	-	-	-	-

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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P-1 Line #5

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface | C70302 / Joint Air-to-Ground MSLS (JAGM)

Missile System

Other Related Program Elements: 0605450A

Program Elements for Code B Items: N/A Line Item MDAP/MAIS Code: N/A

Item MDAP/MAIS Code(s): 355

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Gross/Weapon System Cost (\$ in Millions)	-	-	27.738	37.100	-	37.100	75.728	-	-	-	-	140.566
Net Procurement (P-1) (\$ in Millions)	-	-	27.738	37.100	-	37.100	75.728	-	-	-	-	140.566
Total Obligation Authority (\$ in Millions)	-	-	27.738	37.100	-	37.100	75.728	-	-	-	-	140.566

Description:

The Joint Air-to-Ground Missile (JAGM) program is an Army led Major Defense Acquisition Program (MDAP) with joint interest with the U.S. Marine Corps (USMC) and U.S. Navy. The JAGM mission is to develop the next generation of aviation launched fire and forget missiles to replace the HELLFIRE laser and Longbow radar missiles. JAGM will be used by joint service aircraft for destruction of high value stationary, moving and relocatable land and maritime targets from standoff range in day, night, adverse weather, and obscured battlefield conditions.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface | C70302 / Joint Air-to-Ground MSLS (JAGM)

Missile System

Other Related Program Elements: 0605450A

Program Elements for Code B Items: N/A Line Item MDAP/MAIS Code: N/A

Item MDAP/MAIS Code(s): 355

	Exhibits Schedule		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-10	C70302 / Joint Air-to-Ground MSLS (JAGM)		- / -	- / -	- /27.738	324 / 37.100	- / -	324 / 37.100
P-40	Total Gross/Weapon System Cost		- 1 -	- 1 -	- / 27.738	324 / 37.100	- 1 -	324 / 37.100

^{*}Title represents the P-10 Title for Advance Procurement.

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

Justification:

FY 2017 Base procurement dollars in the amount of \$64.751 million provide government engineering support and the procurement of 324 missiles.

FY 2017 Advance Procurement dollars in the amount of \$37.100 million support the procurement of long lead items for JAGM missiles in FY 2018.

The JAGM Product Office is the procurement agent for all services. Army Acquisition Objective is 20,303.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-10, Advance Procurement	Requirements Analysi	is (page 1 -	- Budget Funding Just	ification):	PB 2017 Army	Date: February 20	16	
Appropriation / Budget Activity / Bud 2032A / 02 / 20	lget Sub Activity:		Item Number / Title: Joint Air-to-Ground MS	LS (JAGM)	P-5 Number / Title C70302 / Joint Air (JAGM)		3
MDAP/MAIS Code: 355								
First System (2017) Award Date: April 2016	First System (2017) Comple March 2018	etion Date:			terval Between Syst Months	tems:		
Joint Air-to-Ground MSLS (JAGM)	Production L		Prior Years (Each)		Y 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)	
Quantity			-		-	-		324
Cost Elements	When Rec	•	Prior Years (\$ M)	F	Y 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)	
Other	,				·			
Guidance Section LL Items (LRIP 1) ^(†)		23	-		-	24.800		-
HELLFIRE Backend LL Items (LRIP 1) ^(†)		23	-		-	2.938		-
Guidance Section LL Items (LRIP 2) (†)		23	-		-	-		28.100
HELLFIRE Backend LL Items (LRIP 2) (†)		23	-		-	-		9.000
Total: Other			-		-	27.738		37.100
Total Advance Procurement/Obligation Autho	rity		-		-	27.738	·	37.100

Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 02 / 20

P-1 Line Item Number / Title:

C70302 / Joint Air-to-Ground MSLS (JAGM)

C70302 / Joint Air-to-Ground MSLS (JAGM)

				FY 2	2017		
Cost Elements	QPA (Each)	Production Leadtime (Months)	Unit Cost	Contract Forecast Date	2017 Qty (Each)	For FY	Total Cost Request (\$ M)
Other							
Guidance Section LL Items (LRIP 1) (†)	1						-
HELLFIRE Backend LL Items (LRIP 1) (†)	1						-
Guidance Section LL Items (LRIP 2) (†)	1	14	56.653	Apr 2017	496		28.100
HELLFIRE Backend LL Items (LRIP 2) (†)	1	18	18.145	Apr 2017	496		9.000
Total: Other							37.100
Total Advance Procurement/Obligation Authority							37.100

Description:

N/A

P-1 Line #6

 $^{^{(\}dagger)}$ indicates the presence of Contract Data presented in the associated P-5 Item's P-5a exhibit.

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

CC0007 / Javelin (AAWS-M) System Summary

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604611A

Line Item MDAP/MAIS Code: N/A

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

Item MDAP/MAIS Code(s): 280

Line item widap/wiais code: N/A	Item MD	AP/IVIAIS COU	ie(S): 200									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	27,950	311	850	309	83	392	370	367	422	670	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	4,589.049	72.877	168.163	73.508	15.567	89.075	89.520	88.702	100.539	143.917	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-	-	-	-	-	-	100.622
Net Procurement (P-1) (\$ in Millions)	4,488.427	72.877	168.163	73.508	15.567	89.075	89.520	88.702	100.539	143.917	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-	-	-	-	-	-	100.622
Total Obligation Authority (\$ in Millions)	4,589.049	72.877	168.163	73.508	15.567	89.075	89.520	88.702	100.539	143.917	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget requests	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	164.188	234.331	197.839	237.890	187.554	227.232	241.946	241.695	238.244	214.801	Continuing	Continuing

Description:

Javelin provides the United States Army and United States Marine Corps (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 a 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 multi-purpose 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. 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.

				FY 2017	FY 2017	FY 2017				
Secondar	y Distribution	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	311	850	309	83	392	370	367	422	670
	Total Obligation Authority	72.877	168.163	73.508	15.567	89.075	89.520	88.702	100.539	143.917
Total:	Quantity	311	850	309	83	392	370	367	422	670
Secondary Distribution	Total Obligation Authority	72.877	168.163	73.508	15.567	89.075	89.520	88.702	100.539	143.917

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

CC0007 / Javelin (AAWS-M) System Summary

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604611A

Line Item MDAP/MAIS Code: N/A

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

Item MDAP/MAIS Code(s): 280

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	CD	Quantity / Total Cost (Each) / (\$ M)					
P-5	H06102 / JAVELIN (AAWS-M)	P-5a, P-21		27,950 / 4,589.049	311 / 72.877	850 / 168.163	309 / 73.508	83 / 15.567	392 / 89.075
P-40	Total Gross/Weapon System Cost			27,950 / 4,589.049	311 / 72.877	850 / 168.163	309 / 73.508	83 / 15.567	392 / 89.075

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

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

Justification:

FY 2017 Base procurement dollars in the amount of \$73.508 million support the procurement of 309 Missiles.

FY 2017 OCO procurement dollars in the amount of \$15.567 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurement includes 83 missiles.

The estimated missile unit prices are based on combined United States Army, other services, and FMS procurements of 850 missiles per year.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales into a buy-to-budget procurement strategy, or to implement a cost reduction Engineering Change Proposal (ECP) for G-Model missile.

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Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 02 / 30

Date: February 2016

P-1 Line Item Number / Title:

CC0007 / Javelin (AAWS-M) System Summary

H06102 / JAVELIN (AAWS-M)

ID Code (A=Service Ready, B=Not Service Ready):		M	DAP/MAIS Code: 280)		
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	27,950	311	850	309	83	392
Gross/Weapon System Cost (\$ in Millions)	4,589.049	72.877	168.163	73.508	15.567	89.075
Less PY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4,488.427	72.877	168.163	73.508	15.567	89.075
Plus CY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	4,589.049	72.877	168.163	73.508	15.567	89.075
(The following Resource Summary rows are for	informational purposes only. The cor	responding budget request	s are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-

234.331

197.839

237.890

187.554

164.188

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

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

	P	Prior Years	3		FY 2015			FY 2016		F	/ 2017 Bas	se	FY	/ 2017 OC	0	FY	/ 2017 Tot	:al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Flyaway Cost	'												'			'		
Recurring Cost																		
All Up Round ^(†)	103.238	27,221	2,810.235	174.376	311	54.231	175.596	850	149.257	176.466	309	54.528	176.470	83	14.647	176.467	392	69.1
Engineering Services	-	-	146.995	-	-	6.513	-	-	6.653	-	-	7.036	-	-	0.341	-	-	7.3
Engineering Change Orders	-	-	11.672	-	-	0.059	-	-	0.059	-	-	0.066	-	-	0.003	-	-	0.0
Acceptance Testing	-	-	58.009	-	-	0.974	-	-	0.964	-	-	0.938	-	-	0.045	-	-	0.9
Fielding	-	-	20.886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Project Management	-	-	171.590	-	-	6.625	-	-	6.701	-	-	6.522	-	-	0.316	-	-	6.8
Production Engineering	-	-	107.429	-	-	4.417	-	-	4.469	-	-	4.347	-	-	0.211	-	-	4.5
Publications/Technical Data	-	-	2.679	-	-	0.058	-	-	0.060	-	-	0.071	-	-	0.004	-	-	0.0
Command Launch Unit	106.658	7,771	828.837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CLU Engineering Services	-	-	40.214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CLU Engineering Change Orders	-	-	3.438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CLU Fielding	-	-	54.628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CLU Retrofits	137.870	1,787	246.374	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Field Tactical Trainers	18.228	2,481	45.223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Basic Skills Trainer	15.554	599	9.317	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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227.232

Exhibit P-5, Cost Analysis: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2002/17 02 7 01

CC0007 / Javelin (AAWS-M) System Summary

H06102 / JAVELIN (AAWS-M)

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

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

MDAP/MAIS Code: 280

	F	Prior Years	3		FY 2015			FY 2016		F'	Y 2017 Ba	se	F	Y 2017 OC	0	F	Y 2017 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Missile Simulation Round	0.434	4,308	1.870	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Training Devices Fielding	-	-	5.668	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EPBST Retrofits	27.000	51	1.377	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Less: Prior Year Adv Proc	-	-	-100.622	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plus P-1 CY Adv Proc	-	-	100.622	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	22.599	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	4,589.049	-	-	72.877	-	-	168.163	-	-	73.508	-	-	15.567	-	-	89.07
Subtotal: Flyaway Cost	-	-	4,589.049	-	-	72.877	-	-	168.163	-	-	73.508	-	-	15.567	-	-	89.07
Gross/Weapon System Cost	164.188	27,950	4,589.049	234.331	311	72.877	197.839	850	168.163	237.890	309	73.508	187.554	83	15.567	227.232	392	89.07

Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	311	850	309	83	392
	Total Obligation Authority	72.877	168.163	73.508	15.567	89.075
	Quantity	311	850	309	83	392
Secondary Distribution	Total Obligation Authority	72.877	168.163	73.508	15.567	89.075

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 A	Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 30	CC0007 / Javelin (AAWS-M) System Summary	H06102 / JAVELIN (AAWS-M)

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Revision	RFP Issue Date
All Up Round ^(†)		2015	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Jun 2015	May 2017	311	174.376	Y		Jul 2012
All Up Round ^(†)		2016	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Mar 2016	Feb 2018	850	175.596	Y		Jul 2012
All Up Round ^(†)		2017	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Mar 2017	Feb 2019	392	176.467	Y		Jul 2012

^(†) indicates the presence of a P-21

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)

Missile unit prices are affected by combining Army procurement quantities with other U.S. services and foreign military sales quantities. Estimated unit price is based on combined U.S. Army, other services and FMS procurements of at least 850 missiles per year.

Request For Proposal (RFP) was issued in July 2012. Contract was awarded base plus 4-option years.

			P-21, Pro																	_					: Feb						
			iation / 1 02 / 30	Budge	t Acti	vity /	Budç	get Si	ıb Ac	tivity	:		Line 0007						n Sum	nmary								[DOD AAWS			
				lements in Each)					-			Fiscal Y	ear 2015											Fiscal Ye							
N O F O #	R	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014		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	Year 201 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	Calen A P R	dar Year M A Y	J U N	J U L	A U G	S E P	I N C
		Round		4			-	_	_							_		_	-	- 1	_					-				-	
rio	r Ye	ars De	eliveries: 2722	21																											
	1 :	2015	ARMY	311	-	311									Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
'	1 :	2015	FMS (‡)	449	-	449									Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1 :	2015	MC ^(‡)	90	-	90									Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	1	2015	Total	850	-	850		_							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
•	1	2016	ARMY	850	-	850														,				Α -	-	-	-	-	-	-	
Τ.	1 :	2016	MC ^(‡)	327	-	327																		A -	-	-	-	-	-	-	
1	1 :	2016	Total	1,177	-	1,177																		-	-	-	-	-	-	-	1,
•	1	2017	ARMY	392	-	392																						,			
-	1	2017	FMS (‡)	449	-	449																									
1	1 :	2017	MC ^(‡)	9	-	9																									
1	1	2017	Total	850	-	850																									
			,				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	U U	A U G	S E P	
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		Budge	4 4 - 41		e: PE	, 2017	7 Arm	у														Date	: Feb	ruary	2016	6		
F			t Acti	vity /	Budg	et Su	ıb Ac	tivity:			Line 0007 <i>l</i>						Sumr	mary								[DOD AAWS		
F	(lements in Each)								Fiscal Ye	ear 2017											Fiscal Ye						
F			ACCEPT PRIOR	BAL								Ca	alendar `	Year 201	7								Calend	dar Year	2018			
# FY	SERVICE	PROC QTY	TO 1 OCT 2016	DUE 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	A U G	S E P
Up Round	d								1	,		,				<u> </u>												
ior Years D	Deliveries: 2722	21																										
1 2015		311	-	311	-	-	-	-	-	-	-	95	95	95	26	-	-	-	-	-								
1 2015	FMS ^(‡)	449	-	449	-	-	-	-	-	-	-	-	-	-	-	73	94	94	94	94								
1 2015	MC (‡)	90	-	90	-	-	-	-	-	-	-	-	-	-	69	21	-	-	-	-								
1 2015	Total	850	-	850	-	-	-	-	-	-	-	95	95	95	95	94	94	94	94	94								
1 2016	ARMY	850	-	850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107	107	107	107	107	107	107	101
1 2016	MC (‡)	327	-	327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 2016		1,177	-	1,177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107	107	107	107	107	107	107	101
1 2017		392	-	392						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 2017	7 FMS ^(‡)	449	-	449						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 2017	MC ^(‡)	9	-	9						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 2017	7 Total	850	-	850						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					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 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 n	A U G	S E P

LI CC0007 - Javelin (AAWS-M) System Summary Army

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P-1 Line #7

Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 30	CC0007 / Javelin (AAWS-M) System Summary	H06102 / JAVELIN (AAWS-M)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFF						Init	tial			Reo	rder	
Ref		MSR For 2017	1-8-5 For 2017	MAX For 2017	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	JJV All Up Round - Tucson AZ Orlando FL	850	3,960	6,480	11	3	23	26	6	3	29	32

^(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

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Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

C59300 / TOW 2 System Summary

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

MAD A DUMANIO O - -I - - NIVA

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

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	e(s): N/A									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	167,942	1,008	1,704	595	815	1,410	640	637	738	745	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	3,130.020	70.333	107.509	64.922	80.652	145.574	89.161	89.134	88.930	79.385	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	157.144	19.965	19.984	-	-	-	19.949	19.949	19.949	10.500	Continuing	Continuing
Net Procurement (P-1) (\$ in Millions)	2,972.876	50.368	87.525	64.922	80.652	145.574	69.212	69.185	68.981	68.885	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	177.124	19.984	-	19.949	-	19.949	19.949	19.949	10.500	-	-	267.455
Total Obligation Authority (\$ in Millions)	3,150.000	70.352	87.525	84.871	80.652	165.523	89.161	89.134	79.481	68.885	Continuing	Continuing
(The following	Resource Sumr	nary rows are fo	r informational p	urposes only. Th	e corresponding	p budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	18.638	69.775	63.092	109.113	98.960	103.244	139.314	139.928	120.501	106.557	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 Armor Brigade Combat Team (ABCT). TOW continues to be used consistently as the weapon of choice in precision combat engagements. TOW missiles are the primary heavy anti-armor / assault missile for the U.S. Marine Corps (USMC) and 43 allied nations. Warfighters employ TOW missiles against buildings and field fortifications taking advantage of the missile's inherent precise assault capability against such targets.

TOW missiles are launched from a variety of combat systems in the active Army and Army National Guard including the Improved Target Acquisition System (ITAS), all infantry and cavalry variants of Bradley Fighting Vehicle Systems (BFVS), the Stryker Anti-Tank Guided Missile (ATGM) Light Armored Vehicle (LAV), 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.

				FY 2017	FY 2017	FY 2017				
Secondar	y Distribution	FY 2015	FY 2016	Base	осо	Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	1,008	1,704	595	815	1,410	640	637	738	745
	Total Obligation Authority	70.352	87.525	84.871	80.652	165.523	69.212	69.185	68.981	68.885
Total:	Quantity	1,008	1,704	595	815	1,410	640	637	738	745
Secondary Distribution	Total Obligation Authority	70.352	87.525	84.871	80.652	165.523	69.212	69.185	68.981	68.885

P-1 Line #8

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

C59300 / TOW 2 System Summary

Assault Missile Sys

G593007 TOW 2 System Summar

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	CD	Quantity / Total Cost (Each) / (\$ M)					
P-5	C59403 / TOW Family of Missiles	P-5a, P-21		167,942 / 3,130.020	1,008 / 70.333	1,704 / 107.509	595 / 64.922	815 / 80.652	1,410 / 145.574
P-40	Total Gross/Weapon System Cost			167,942 / 3,130.020	1,008 / 70.333	1,704 / 107.509	595 / 64.922	815 / 80.652	1,410 / 145.574

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

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

Justification:

FY 2017 Base procurement dollars in the amount of \$64.922 million support the procurement of 595 missiles and the first year of a five-year (FY17-21) multi-year contract.

FY 2017 OCO includes \$80.652 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiative. The procurements include the 815 TOW missiles.

In accordance with Section 1815 of the FY08 National Defense Authorization Act, this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

NOTES:

The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales into a buy-to-budget procurement strategy.

							UI	NCLAS:	SIFIED)								
Exhibit P-5, Cost	Analysis	s: PB 20	17 Army											Date: Fe	ebruary 2	2016		
Appropriation / B 2032A / 02 / 30	udget A	ctivity /	Budget	Sub Act	ivity:			Numbe							mber / T / TOW F		DIC]: Missiles	
ID Code (A=Service Read	ly, B=Not Servi	ce Ready):				'			М	DAP/MAIS	Code:							
F	Resource	Summ	ary		F	Prior Yea	ars	FY 20	15	FY	2016	FY	2017 Bas	se F	Y 2017 C	СО	FY 2017	' Total
Procurement Quantity (Uni	its in Each)						167,942		1,008		1,7	04		595		815		1,410
Gross/Weapon System Co	ost (\$ in Million	s)				3	,130.020		70.333		107.5	09	64	1.922		80.652		145.57
Less PY Advance Procure	ement (\$ in Mil	lions)					157.144		19.965		19.9	84		-		-		-
Net Procurement (P-1) (\$ i	in Millions)					2	,972.876		50.368		87.5	25	64	1.922		80.652		145.57
Plus CY Advance Procure	ment (\$ in Mill	lions)					177.124		19.984			-	19	9.949		-		19.94
Total Obligation Authorit	ty (\$ in Millions	;)				3	,150.000		70.352		87.5	25	84	4.871		80.652		165.52
(TI	he following l	Resource Si	ummary row	s are for info	rmational pu	urposes only	. The corres	ponding budg	get request	s are docum	ented elsev	rhere.)						
Initial Spares (\$ in Millions)							-		-			-		-		-		-
Gross/Weapon System Ur	nit Cost (\$ in 1	Thousands)					18.638		69.775		63.0	92	109	9.113		98.960		103.244
Note: Subtotals or Totals i				r sum exactl	·	nding.	1											
	F	Prior Years			FY 2015			FY 2016		FY	′ 2017 Ba		F	/ 2017 OC	1	F	Y 2017 Tota	1
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																Г		1
Non-Recurring	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-			-	-
Missile Contract ^(†)	18.238	167,942	3,062.926	58.908	1,008	59.379	67.698	1,704	115.357	56.010	595	33.326		815		75.389	1,410	106.299
Engineering Services	-	-	16.964	-	-	2.327	-	-	2.393	-	-	2.307	+	-	4.216	-	-	6.523
Acceptance Testing Project Mgt Admin	-	-	3.439 24.726	-	-	1.445 7.163	-	-	1.524 8.219	-	-	1.449 7.891	-	-	2.898 0.565	-	-	4.34 8.456
Less: Prior Year Adv												7.091	-				-	0.430
Proc	-	-	-157.144	-	-	-19.965	-	-	-19.984	-	-	-	-	-	-	-	-	-
PLUS P-1 CY Adv. Proc.	-	-	177.109	-	-	19.984	-	-	-	-	-	19.949	-	-	-	-	-	19.949
Subtotal: Recurring Cost	-	-	3,130.020	-	-	70.333	-	-	107.509	-	-	64.922	-	-	80.652	-	-	145.57
Subtotal: Flyaway Cost	-	-	3,130.020	-	-	70.333	-	-	107.509	-	-	64.922	-	-	80.652	-	-	145.57
Gross/Weapon System Cost	18.638	167,942	3,130.020	69.775	1,008	70.333	63.092	1,704	107.509	109.113	595	64.922	98.960	815	80.652	103.244	1,410	145.574
											1			1				-
	Sec	ondary Di	stribution				FY	2015		FY 2016		FY 2 Ba			FY 2017 OCO		FY 201 Total	
Army		Qua	ntity					1,00	08		1,704		595	5		815		1,410
			l Obligation Au	uthority				70.35			87.525		84.87			80.652		165.523
Total: Secondary Distribution			ntity					1,00			1,704		59	-		815		1,410
occonually Distribution		Tota	I Obligation A	Authority		I .		70.33			107.509		64.922	. .		80.652		145.574

LI C59300 - TOW 2 System Summary Army

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P-1 Line #8

Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: C59300 / TOW 2 System Summary	Item Number / Title [DODIC]: C59403 / TOW Family of Missiles
ID Code (A=Service Ready, B=Not Service Ready):	MDAP/MAIS Code:	
2032A / 02 / 30	C59300 / TOW 2 System Summary	C59403 / TOW Family of Missiles

LI C59300 - TOW 2 System Summary Army

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A / 02 / 30

Date: February 2016

Item Number / Title [DODIC]:
C59300 / TOW 2 System Summary

C59403 / TOW Family of Missiles

2032A / 02 / 30			C	59300 / TOW 2 S	System Summary			C594	03 / TOW	Famil	y of Missil	es
Cost Elements	000	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issu Date
Missile Contract ^(†)		2015	Raytheon / Tucson	SS / FFP	AMCOM, Redstone Arsenal, AL	Dec 2014	Jul 2016	1,008	58.908	Υ		
Missile Contract ^(†)		2016	Raytheon / Tucson	SS / FFP	AMCOM, Redstone Arsenal, AL	Dec 2015	Jul 2017	1,704	67.698	Υ		
Missile Contract ^(†)		2017	Raytheon / Tucson	SS / FFP	AMCOM, Redstone Arsenal, AL	May 2017	Apr 2019	595	56.010	Υ		
Missile Contract ^(†)		2017	Raytheon OCO / Tucson	SS / FFP	AMCOM, Redstone Arsenal, AL	May 2017	Dec 2018	815	89.538	Υ		
Advance Procurement												
Launch Motor		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Dec 2014	Jul 2016	1	1.529			
Launch Motor		2017	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	May 2017	Dec 2018	588	1.529			
Flight Motor		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Dec 2014	Jul 2016	-	0.284			
Flight Motor		2017	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	May 2017	Dec 2018	595	0.284			
Warhead		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Dec 2014	Jul 2016	7	11.882			
Warhead		2017	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	May 2017	Dec 2018	595	11.882			
Gyro		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Dec 2014	Jul 2016	2	2.583			
Gyro		2017	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	May 2017	Dec 2018	595	2.583			
Flight Motor Case Kit		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Dec 2014	Jul 2016	-	0.594			
Flight Motor Case Kit		2017	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	May 2017	Dec 2018	588	0.594			
2B Sensor		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Dec 2014	Jul 2016	9	14.244			
2B Sensor		2017	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	May 2017	Dec 2018	595	14.244			
Control Surface Actuator		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Dec 2014	Jul 2016	1	1.529			
Control Surface Actuator		2017	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	May 2017	Dec 2018	595	1.529			
Beacon Shutter Actuator		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Dec 2014	Jul 2016	1	0.908			

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Exhibit P-5a, Procurement History and Planning: PB 2017 A	ırmy	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 30	C59300 / TOW 2 System Summary	C59403 / TOW Family of Missiles

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
Beacon Shutter Actuator		2017	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	May 2017	Dec 2018	595	0.908			

^(†) indicates the presence of a P-21

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

	nik	bit	P-21, Pr	oducti	on Sc	hedul	e: PE	3 201	7 Arm	у														Date	: Fet	oruary	2016	3 			
			oriation / / 02 / 30	Budge	t Acti	vity /	Budg	jet Su	ıb Ac	tivity	:		Line 9300 /															[DOD ily of N		es	
				lements in Each)								Fiscal Y	ear 2015	,					,				,	Fiscal Y	ear 2016				,		E
Τ.					ACCEPT									С	alendar	Year 201	15								Caler	ıdar Yeaı	2016				L
N D F C R	₹	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE 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	J U L	A U G	S E P	N C
Missi	ile (Conf	tract																												
	_		Deliveries: 1679	942																1					r	1					
_	_		5 ARMY (VII)	1,008	-	1,008			Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	84	84	
1	1 2	201	5 MC (‡) (VIII)	136	-	136			Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	
1	1 :	201	5 Total	1,144	-	1,144			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	96	96	- 1
1	1 2	201	6 ARMY (IX)	1,704	-	1,704															A -	-	-	-	-	-	-	-	-	-	1,
1	1 2	201	6 MC ^{(‡) (X)}	1,114	-	1,114															Α -	-	-	-	-	-	-	-	-	-	1,
1	1 2	201	6 Total	2,818	-	2,818															-	-	-	-	-	-	-	-	-	-	2,
1	1 2	201	7 ARMY (XI)	595	-	595																									
1	1 2	201	7 MC (‡) (XII)	60	_	60																									
1	1 2	201	7 Total	655	-	655																									
2	2 2	201	7 ARMY (XIII)	815	-	815																									
							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	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	

LI C59300 - TOW 2 System Summary Army

xh	ibit F	P-21, Pro	oducti	on Sc	hedul	e: PE	2017	7 Arm	y														Date	: Feb	ruary	2016				
		iation / 1 02 / 30	Budge	t Acti	vity /	Budg	et Su	ıb Act	tivity:			Line 9300 <i>l</i>											Item C594						es	
		Cost El (Units i	ements n Each)							ļ	Fiscal Y	ear 2017											iscal Ye	ar 2018						
T.,				ACCEPT									С	alendar	Year 201	7								Calen	dar Year	2018				į
M F R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2016	BAL DUE 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	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	A U G	S E P	ĺ
issil	e Contra	ıct				I										I														
rior	Years D	eliveries: 1679	142																											_
1	2015	ARMY (VII)	1,008	252	756	84	84	84	84	84	84	84	84	84																<u> </u>
1	2015	MC (‡) (VIII)	136	36	100	12	12	12	12	12	10	10	10	10																Ī
1	2015	Total	1,144	288	856	96	96	96	96	96	94	94	94	94																Π
1	2016	ARMY (IX)	1,704	-	1,704	-	-	-	-	-	-	-	-	-	142	142	142	142	142	142	142	142	142	142	142	142	-	-	-	Ī
1	2016	MC (‡) (X)	1,114	-	1,114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	224	224	222	
1	2016	Total	2,818	-	2,818	-	-	-	-	-	-	-	-	-	142	142	142	142	142	142	142	142	142	142	142	142	224	224	222	
1	2017	ARMY (XI)	595	-	595								Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	2017	MC (‡) (XII)	60	-	60								Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Π
1	2017	Total	655	-	655								-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2017	ARMY (XIII)	815	-	815								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2						0	N O	D E	J A	F E	M A	A P	M A	Ŋ	J	A U	S E	0	N O	D E	J A	F E	M A	A P	M A	Ŋ	Ŋ	A U	S E	

		P-21, Pr																							oruary					
		oriation / / 02 / 30	Budge	t Acti	vity /	Budge	et Sı	ıb Act	ivity:			Line I 300 /													nber / TOW				es	
			lements in Each)			_				ı	Fiscal Ye	ar 2019	,										Fiscal Ye							i i
M F C R	ΕV	() OFFINIOR	PROC	ACCEPT PRIOR TO 1 OCT	DUE AS OF	0 C	N O	D E	J A	F E	M A	A P	M A Y	Ŋ	Year 2019 J U	A U	S E	0 C	N O	D E	J A	F E	M A	A P	M A	J	n n	A U	S E	 !
) # Missile C	FY		QTY	2018	1 OCT	Т	V	С	N	В	R	R	Y	N	L	G	Р	Т	V	С	N	В	R	R	Y	N	L	G	Р	
		Deliveries: 167	942																											_
1 2	2015	5 ARMY (VII)	1,008	1,008	-																									
		5 MC (‡) (VIII)	136	136	-																								l	
		5 Total	1,144	1,144	-																									\vdash
1 2	2016	6 ARMY (IX)	1,704	1,704	-	-	-																							
1 2	2016		1,114	670	444	222	222																							
1 2	2016	6 Total	2,818	2,374	444	222	222																							
1 2	2017	7 ARMY (XI)	595	-	595	-	-	-	-	-	-	60	175	175	175	10														
1 2	2017	7 MC (‡) (XII)	60	-	60	-	-	-	-	-	-	-	-	-	-	60														
1 2	2017	7 Total	655	-	655	-	-	-	-	-	-	60	175	175	175	70														
2 2	2017	7 ARMY (XIII)	815	-	815	-	-	175	175	175	175	115			'															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U U	A U G	S E P	
						Т	V	С	N	В		R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Y	N	L	G	Р	

LI C59300 - TOW 2 System Summary Army

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: C59300 / TOW 2 System Summary	Item Number / Title [DODIC]: C59403 / TOW Family of Missiles

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFI	٦ ا					lni	tial			Red	order	
Re	Manufacturer				ALT	ALT	Manufacturing	Total	ALT	ALT	Manufacturing	Total
#	Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	Prior to Oct 1	After Oct 1	PLT	After Oct 1	Prior to Oct 1	After Oct 1	PLT	After Oct 1
	1 Raytheon - Tucson	2,100	7,200	16,800	3	2	16	18	3	2	16	18
	Raytheon OCO - Tucson	2,100	7,200	16,800	3	2	16	18	3	2	16	18

^(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Service/Agency Suffixes:

^(VII) BASE

(VIII) Base

(IX) BASE

(X) BASE

(XI) Base (XII) BASE

(XIII) OCO

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

Assault Missile Sys

C59300 / TOW 2 System Summary

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

P-1 Line Item Number / Title:

Line Item MDAP/MAIS Code: N/A

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

			- (-)									
	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Gross/Weapon System Cost (\$ in Millions)	177.124	19.984	-	19.949	-	19.949	19.949	19.949	10.500	-	-	267.455
Net Procurement (P-1) (\$ in Millions)	177.124	19.984	-	19.949	-	19.949	19.949	19.949	10.500	-	-	267.455
Total Obligation Authority (\$ in Millions)	177.124	19.984	-	19.949	-	19.949	19.949	19.949	10.500	-	-	267.455

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 Armor Brigade Combat Team (ABCT). TOW continues to be used consistently as the weapon of choice in precision combat engagements. TOW missiles are the primary heavy anti-armor / assault missile for the U.S. Marine Corps (USMC) and 43 allied nations. Warfighters employ TOW missiles against buildings and field fortifications taking advantage of the missile's inherent precise assault capability against such targets.

TOW missiles are launched from a variety of combat systems in the active Army and Army National Guard including the Improved Target Acquisition System (ITAS), all infantry and cavalry variants of Bradley Fighting Vehicle Systems (BFVS), the Stryker Anti-Tank Guided Missile (ATGM) Light Armored Vehicle (LAV), 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.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

Assault Missile Sys

C59300 / TOW 2 System Summary

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

P-1 Line Item Number / Title:

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	ID Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)				
P-10	C59403 / TOW Family of Missiles	167,942 / 177.124	1,008 / 19.984	1,704 / -	595 / 19.949	815 / -	1,410 / 19.949
P-40	Total Gross/Weapon System Cost	167,942 / 177.124	1,008 / 19.984	1,704 / -	595 / 19.949	815 / -	1,410 / 19.949

^{*}Title represents the P-10 Title for Advance Procurement.

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

Justification:

FY 2017 advance procurement funding in the amount of \$19.949 million supports to the procurement of long lead items required for production in FY 2018.

IAW Section 1815 of the FY08 NDAA, this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

NOTES:

The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales into a buy-to-budget procurement strategy.

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Exhibit P-10, Advance Procurem	ent Requirements Analysi	s (page 1 - 1	Budget Funding Justit	fication): PB 2017 Army	Date: February 201	6
Appropriation / Budget Activity / 2032A / 02 / 30	Budget Sub Activity:		tem Number / Title: ΓΟW 2 System Summar	ту	P-5 Number / Title: C59403 / TOW Fan	
First System (2017) Award Date: May 2017	First System (2017) Comple December 2018	etion Date:		Interval Between Sy 12 Months	stems:	
TOW Family of Missiles	Production L		Prior Years (Each)	FY 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)
Quantity			167,942	1,008	1,704	1,410
Cost Elements	When Rec		Prior Years (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)
Other	,	•		,		
Launch Motor ^(†)		14	9.460	0.905	-	0.899
Flight Motor ^(†)		12	2.983	0.170	-	0.169
Warhead ^(†)		19	72.424	7.018	-	7.070
Gyro ^(†)		13	16.181	1.548	-	1.537
Flight Motor Case Kit ^(†)		10	3.669	0.351	-	0.349
2B Sensor ^(†)		18	57.158	8.533	-	8.475
Control Surface Actuator ^(†)		13	9.575	0.916	-	0.910
Beacon Shutter Actuator ^(†)		11	5.674	0.543	-	0.540
Total: Other			177.124	19.984	-	19.949
Total Advance Procurement/Obligation A	Authority		177.124	19.984	-	19.949

Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 02 / 30

P-1 Line Item Number / Title:

C59300 / TOW 2 System Summary

Date: February 2016

P-5 Number / Title:

C59403 / TOW Family of Missiles

	·			FY 2	2017		
Cost Elements	QPA (Each)	Production Leadtime (Months)	Unit Cost (\$ K)	Contract Forecast Date	2017 Qty (Each)	For FY	Total Cost Request (\$ M)
Other							
Launch Motor ^(†)	1	14	1.529	May 2017	588		0.899
Flight Motor ^(†)	1	12	0.284	May 2017	595		0.169
Warhead ^(†)	1	19	11.882	May 2017	595		7.070
Gyro ^(†)	1	13	2.583	May 2017	595		1.537
Flight Motor Case Kit ^(†)	1	12	0.594	May 2017	588		0.349
2B Sensor ^(†)	1	18	14.244	May 2017	595		8.475
Control Surface Actuator (†)	1	13	1.529	May 2017	595		0.910
Beacon Shutter Actuator ^(†)	1	12	0.908	May 2017	595		0.540
Total: Other							19.949
Total Advance Procurement/Obligation Authority							19.949

Description:

Advanced procurement funding in FY17, FY18, FY19 & FY20 procures EOQ to support the FY17-21 multi-year contract for 3,355 missiles.

On the P-10A the End Item Quantity for FY17 shows a quantity of 1,410 which is the sum of the FY17 Base and FY17 OCO. It should only show the FY17 Base which is 595.

On the P-10d the End Item quantity for FY17 shows 676 for the quantity and a Contract Forecast Date of 12/15/2016, these are incorrect. The correct FY17 Quantity should be 595 and the correct Contract Forecast Date should be 5/15/2017.

(†) indicates the presence of Contract Data presented in the associated P-5 Item's P-5a exhibit.

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

C64400 / Guided MLRS Rocket (GMLRS)

Assault Missile Sys

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

Program Elements for Code B Items: N/A

Other Related Program Elements: 0603778A, 0205778A

Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): 260

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	e(s): 260									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	21,684	768	1,866	1,068	698	1,766	1,836	1,296	1,998	1,776	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	2,620.775	127.145	251.060	172.088	75.991	248.079	260.698	205.409	287.288	265.991	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,620.775	127.145	251.060	172.088	75.991	248.079	260.698	205.409	287.288	265.991	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,620.775	127.145	251.060	172.088	75.991	248.079	260.698	205.409	287.288	265.991	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	120.862	165.553	134.544	161.131	108.870	140.475	141.992	158.495	143.788	149.770	Continuing	Continuing

Description:

Guided Multiple Launch Rocket System (GMLRS) rockets are surface-to-surface artillery rockets fired from the Multiple Launch Rocket System (MLRS) and High Mobility Artillery Rocket System (HIMARS) launchers. Dual GMLRS rockets provide 24/7, all-weather precision fires to engage both area and point targets at short, medium, and long ranges. The U.S. Marine Corps also procures GMLRS rockets through the Army project office.

The GMLRS Program consists of three separate increments. GMLRS Dual Purpose Improved Conventional Munition (DPICM) was the first increment. It is a cluster munition that replaced the shorter range MLRS rockets to engage area or imprecisely located targets. GMLRS DPICM Production was terminated in response to the June 2008 Department of Defense (DoD) Cluster Munitions Policy. GMLRS Unitary is the second increment that utilizes a 200-pound high explosive warhead to engage point targets with limited collateral damage. GMLRS Alternative Warhead (AW) was developed as a non-cluster munition replacement to GMLRS DPICM. The Program completed the Engineering and Manufacturing Development (EMD) Phase and entered full rate production in FY15. The GMLRS AW rocket is 90% common with the Unitary variant.

				FY 2017	FY 2017	FY 2017				
Secondar	y Distribution	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	768	1,866	1,068	698	1,766	1,836	1,296	1,998	1,776
	Total Obligation Authority	127.145	251.060	172.088	75.991	248.079	260.698	205.409	287.288	265.991
Total:	Quantity	768	1,866	1,068	698	1,766	1,836	1,296	1,998	1,776
Secondary Distribution	Total Obligation Authority	127.145	251.060	172.088	75.991	248.079	260.698	205.409	287.288	265.991

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P-1 Line #10

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

C64400 / Guided MLRS Rocket (GMLRS)

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0603778A, 0205778A

Line Item MDAP/MAIS Code: N/A

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

Item MDAP/MAIS Code(s): 260

	Exhibits Schedule		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits ID CD	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)				
P-5	C65404 / GUIDED MLRS ROCKET (GMLRS)	P-5a, P-21	21,684 / 2,618.586	768 / 126.707	1,866 / 250.617	1,068 / 171.638	698 / 75.991	1,766 / 247.629
P-40a	C65406 / GMLRS Training Devices		- /2.186	- / 0.438	- / 0.443	- / 0.450	- / -	- / 0.450
P-40	Total Gross/Weapon System Cost		21,684 / 2,620.775	768 / 127.145	1,866 / 251.060	1,068 / 172.088	698 / 75.991	1,766 / 248.079

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

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

Justification:

FY 2017 Base procurement dollars in the amount of \$171.638 million supports the acquisition of 1068 GMLRS AW rockets for the United States Army. Army Procurement Objective is 43,560.

FY 2017 Base procurement dollars in the amount of \$.450 million supports the acquisition of equipment and support to ensure Guided Multiple Launch Rocket Common Training Device alignment with the production configuration.

FY 2017 OCO includes \$75.991 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiate. The procurements include 698 GMLRS rockets.

All funding goes to the Active Component.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

							UN	NCLAS	SIFIED)								
Exhibit P-5, Cost	Analysis	s: PB 20	17 Army	,									I	Date: Fe	ebruary 2	2016		
Appropriation / B 2032A / 02 / 30	udget A	ctivity /	Budget	Sub Acti	ivity:		ine Item 100 / Guid			et (GMLR	RS)						DIC]: S ROCKE	T
ID Code (A=Service Read	ly, B=Not Servi	ce Ready):							МІ	DAP/MAIS	6 Code: 20	60						
F	Resource	Summa	ary		F	Prior Yea	ars	FY 20	15	FY	2016	FY	2017 Bas	e F	Y 2017 C	ОСО	FY 2017	' Total
Procurement Quantity (Uni	ts in Each)						21,684		768		1,86	6	1	,068		698		1,766
Gross/Weapon System Co	ost (\$ in Million	s)				2	,618.586		126.707		250.61	7	171	.638		75.991		247.629
Less PY Advance Procure	ment (\$ in Mil	lions)					-		-		-			-		-		-
Net Procurement (P-1) (\$ i	n Millions)					2	,618.586		126.707		250.61	7	171	.638		75.991		247.629
Plus CY Advance Procure	ment (\$ in Mill	lions)					-	-	-		-			-		-		-
Total Obligation Authorit	y (\$ in Millions	;)				2	,618.586		126.707		250.61	7	171	.638		75.991		247.629
(TI	ne following F	Resource Su	ımmary row	s are for info	rmational p	urposes only	. The corres	ponding bud	get request	s are docum	ented elsewh	ere.)						
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in 7	Thousands)					120.761		164.983		134.30	7	160	.710		108.870		140.220
Note: Subtotals or Totals i	n this Evhihit	P-5 may no	it he exact o	r sum exactly	v due to rou	ındina									"			
Troto. Gustotalo di Totalo li		Prior Years		- Guill Oxagu	FY 2015			FY 2016		FY	/ 2017 Bas	Δ	FY	2017 OC	20	F	Y 2017 Tot	al
	-	1101 10410	Total		20.0	Total		1 . 20.0	Total		2011 240	Total		2011 00	Total			Total
Cost Elements	Unit Cost (\$ K)	Qty (Each)	Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)
Flyaway Cost																		
Recurring Cost							1											1
Tactical GMLRS Hardware ^(†)	102.424	21,684	2,220.957	125.576	768	96.442	114.635	1,866	213.908	131.722	1,068	140.679	108.728	698	75.892	122.634	1,766	216.57
Engineering Services	-	-	76.932	-	-	5.587	-	-	5.696	-	-	5.807	-	-	-	-	-	5.807
Ind Maint/Init Prod Fac Government Test	-	-	55.971 44.276	-	-	0.136 6.073	-	-	4.604 6.284	-	-	6.407	-	-	-	-	-	6.407
First Destination	-		3.639	-		0.073	-	-	0.263	-	-	0.407	-		0.099	_	_	0.262
Transportation Production	-		155.642	-		12.117	-	-	11.874	-	-	12.105	-	-	0.099	-	-	12.105
Engineering Support Project Management			59.887			6.232			6.353	_	-	6.477				_		6.477
Admin			1.277			0.202												
Spares Subtotal: Recurring Cost	-	-	2,618.586	-	-	126.708	-	-	1.635 250.618	-		171.638	-	-	75.991	-	-	247.630
Subtotal: Flyaway Cost	_		2,618.586	-		126.708	-	-	250.618	-	-	171.638	-		75.991	-	-	247.630
Gross/Weapon System Cost	120.761	21,684	2,618.586	164.983	768	126.707	134.307	1,866	250.617	160.710	1,068	171.638	108.870	698	75.991	140.220	1,766	247.629
														1 .	=>/ 00 /=		P 1.4.5.	4-
	Sec	ondary Di	stribution				FY 2	2015		FY 2016		FY 2 Bas			FY 2017 OCO		FY 201 Total	

LI C64400 - Guided MLRS Rocket (GMLRS) Army

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: C64400 / Guided MLRS Rocket (GMLRS)	Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS)

ID Code (A=Service Ready, B=Not Service	Ready):		MDAP/MAIS Code	e: 260		
Seco	ndary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	126.707	250.617	171.638	75.991	247.629
Total:	Quantity	768	1,866	1,068	698	1,766
Secondary Distribution	Total Obligation Authority	126.707	250.617	171.638	75.991	247.629

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2017 A	Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: C64400 / Guided MLRS Rocket (GMLRS)	Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS)

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Revision	RFP Issue Date
Tactical GMLRS Hardware ^(†)		2015	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FPIF	Aviation and Missile Command	Jun 2015	Oct 2016	768	125.576			Feb 2013
Tactical GMLRS Hardware ^(†)		2016	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FPIF	Aviation and Missile Command	Mar 2016	Jul 2017	1,866	114.635			Feb 2016
Tactical GMLRS Hardware ^(†)		2017	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FPIF	Aviation and Missile Command	Dec 2016	Apr 2018	1,766	122.634			Feb 2016

^(†) indicates the presence of a P-21

Remarks:

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

The Request For Quote (RFQ) was released to the Prime for the FY2016/2017 requirements in February 2016. The current Army Contracting Command - Redstone (ACC-R) schedule supports awarding FY 2017 requirement in December 2016.

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^{*}Sole Source/Firm Fixed Price

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

		P-21, Pro	oducti	on Sc	hedul	e: PE	3 201	7 Arm	ıy														Date	e: Feb	ruary	2016	3		
		iation / 1 02 / 30	Budge	et Acti	vity /	Budç	get Sı	ıb Ac	tivity	:						/ Title : Rocke		1LRS))				C65	Num 404 / ILRS)					KET
			ements n Each)								Fiscal `	Year 2015	5										Fiscal Y	ear 2016					ı
				ACCEPT				_		-			(Calendar	Year 20	015								Calen	dar Year	2016			—
M O F C R O #	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE 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	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	n n	A U G	S I
Tactica	I GMLF	RS Hardware						,	,			,								,				'			,		· ·
Prior Y	ears De	eliveries: 2168	34																										
1	2015	ARMY	768	-	768									Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	2015	MC ^(‡)	72	-	72									Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	2015	Total	840	-	840									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	2016	ARMY	1,866	-	1,866																		Α -	-	-	-	-	-	- 1,
1	2016	MC ^(‡)	90	-	90																		Α -	-	-	-	-	-	-
1	2016	Total	1,956	-	1,956																		-	-	-	-	-	-	- 1,
1	2017	ARMY	1,766	-	1,766																								1,
1	2017	MC ^(‡)	180	-	180																								
1	2017	Total	1,946	-	1,946																								1,
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J 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

LI C64400 - Guided MLRS Rocket (GMLRS) Army

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	ibit F	P-21, Pro	ducti	on Sc	hedul	e: PB	2017	7 Arm	y														Date	: Feb	ruary	2016				
	ropr	riation / 1 02 / 30												Numb ed ML			t (GM	ILRS)						104 / 0			[DOD LRS F		ŒΤ	
		Cost E (Units i		400FDT						F	iscal Ye	ear 2017		-11V	· · 0047							F	iscal Ye		dar Year	0040				B
M O F C R		SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE 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	A N C
Faction	al GMLI	RS Hardware				1					,			,											'					
Prior		eliveries: 2168																												
1	+	ARMY	768	-	768	66	66	66	66	66	66	66	66	66	66	66	42													<u> </u>
1		MC ^(‡)	72	-	72	6	6	6	6	6	6	6	6	6	6	6	6													
1	_	Total	840	-	840	72	72	72	72	72	72	72	72	72	72	72	48													
1	2016		1,866	-	1,866	-	-	-	-	-	-	-	-	-	162	162	162	162	162	162	162	162	162	162	162	84				
1	2016	1	90	-	90	-	-	-	-	-	-	-	-	-	12	12	12	6	6	6	6	6	6	6	6	6			ļ	
1	2016	-	1,956	•	1,956	-	-	-	-	-	-	-	-	-	174	174	174	168	168	168	168	168	168	168	168	90				-
1	_	ARMY	1,766	-	1,766			Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	150	150	150	150	150	8
1	2017	MC ^(‡)	180	-	180			Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	18	18	18	
1	2017	Total	1,946	-	1,946	_		-	-		-	-	-	-		-	-	-	-	-	-	-	-	168	168	168	168	168	168	9:
						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 N J	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	U U	U J	A U G	S E P	

propriation /		on Sc	hedul	e: PB	2017	' Army	/														Date	: Feb	ruary	2016	3		
32A / 02 / 30	Budge	t Acti	vity /	Budge	et Su	b Act	ivity:							Title Rock	: et (GN	/ILRS)				C65				[DOI ILRS	DIC]: ROCI	KET
	lements in Each)			_			_	F	iscal Ye	ear 2019											Fiscal Y						
M		ACCEPT PRIOR	BAL								C	alenda	Year 20	19				1				Calen	dar Yea	r 2020			
F R # FY SERVICE	PROC QTY	TO 1 OCT 2018	DUE 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	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
tical GMLRS Hardware								<u> </u>																			
r Years Deliveries: 216	84																										
1 2015 ARMY	768	768	-																								
1 2015 MC ^(‡)	72	72	-																								
1 2015 Total	840	840	-																								
1 2016 ARMY	1,866	1,866	-																								
1 2016 MC ^(‡)	90	90	-																								
1 2016 Total	1,956	1,956	-																								
1 2017 ARMY	1,766	900	866	150	150	150	150	150	116																		
1 2017 MC ^(‡)	180	108	72	12	12	12	12	12	12																		
1 2017 Total	1,946	1,008	938	162	162	162	162	162	128																		

LI C64400 - Guided MLRS Rocket (GMLRS) Army

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: C64400 / Guided MLRS Rocket (GMLRS)	tem Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS)

		Product	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Init	tial			Reo	rder	
Ref #	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
	Lockheed Martin M.&F.C Sys Dallas, TX	90	250	500	-	2	16	18	-	2	16	18

^(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 02 / 30

Date: February 2016

Aggregated Items Title:

C64400 / Guided MLRS Rocket (GMLRS)

Various

				Prior Years FY 2015		FY 2015			FY 2016		FY	/ 2017 Ba	se	F	FY 2017 OCO		FY 2017 Total		tal	
Item Number /	ID CD	MDAP/ MAIS Code	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 (\$ M)
GMLRS Training Devices			. ,	,	, ,	, , ,				, ,	, ,	, ,	, ,	,	, ,	, ,	,,,,	, ,		
C65406 / GMLRS Training Devices			-	-	2.186	-	-	0.438	-	-	0.443	-	-	0.450	-	-	-	-	-	0.450
Secondary Distribution	1																			
Army				-	-		-	0.438		-	0.443		-	0.450		-	-		-	0.450
Subtotal: GMLRS Training	g Dev	/ices	-	-	2.186	-	-	0.438	-	-	0.443	-	-	0.450	-	-	-	-	-	0.450
Total			-	-	2.186	-	-	0.438	-	-	0.443	-	-	0.450	-	-	-	-	-	0.450

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

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

C65405 / MLRS Reduced Range Practice Rockets (RRPR)

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210602A

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

Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A												
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	44,771	2,994	1,680	1,704	-	1,704	2,208	2,244	2,244	2,262	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	172.690	17.274	17.428	18.004	-	18.004	23.321	24.147	24.628	25.276	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	172.690	17.274	17.428	18.004	-	18.004	23.321	24.147	24.628	25.276	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	172.690	17.274	17.428	18.004	-	18.004	23.321	24.147	24.628	25.276	Continuing	Continuing
(The following	Resource Sumr	mary rows are fo	or informational p	urposes only. Th	e corresponding	g budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	3.857	5.770	10.374	10.566	-	10.566	10.562	10.761	10.975	11.174	Continuing	Continuing

Description:

The Multiple Launch Rocket System (MLRS) Low Cost Reduced Range Practice Rocket (RRPR) is the only live training rocket for High Mobility Artillery Rocket System (HIMARS) and M270/M270A1 MLRS Launcher units/crews. RRPR meets a critical validated requirement for Active and National Guard HIMARS and M270A1 launcher units to achieve and maintain combat readiness. HIMARS and M270A1 Battalions are organic and attached to modular Fires Brigades supporting Brigade Combat Teams (BCTs), Joint Expeditionary Force, and Joint Special Operations Force combatant commanders. The training rocket has an inert payload section and blunt nose for inducing reduced range for use at multiple facilities in the United States and foreign countries.

RRPRs are manufactured by Lockheed Martin in Camden, Arkansas and Letterkenny Munitions Center (LEMC) in Chambersburg, Pennsylvania. LEMC provides an organic dual source producing no less than 20 percent of the fiscal year procurement quantity.

Total Obligation Authority		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	1,703	1,080	1,092	-	1,092	1,416	1,440	1,440	1,554
	Total Obligation Authority	11.170	11.204	11.538	-	11.538	14.956	15.495	15.804	17.365
ANG	Quantity	1,291	600	612	-	612	792	804	804	708
	Total Obligation Authority	6.104	6.224	6.466	-	6.466	8.365	8.652	8.824	7.911
Total:	Quantity	2,994	1,680	1,704	-	1,704	2,208	2,244	2,244	2,262
Secondary Distribution	Total Obligation Authority	17.274	17.428	18.004	-	18.004	23.321	24.147	24.628	25.276

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

C65405 / MLRS Reduced Range Practice Rockets (RRPR)

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210602A

Line Item MDAP/MAIS Code: N/A

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

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	CD	Quantity / Total Cost (Each) / (\$ M)					
P-5	C65405 / MLRS Reduced Range Practice Rockets (RRPR)	P-5a, P-21		44,771 / 172.690	2,994 / 17.274	1,680 / 17.428	1,704 / 18.004	- / -	1,704 / 18.004
P-40	Total Gross/Weapon System Cost			44,771 / 172.690	2,994 / 17.274	1,680 / 17.428	1,704 / 18.004	- 1 -	1,704 / 18.004

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

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

Justification:

FY2017 Base procurement dollars in the amount of \$18.004 million support the procurement of 1704 RRPRs which are required to maintain the practice rocket inventory for Standards in Training Commission (STRC) requirements.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
2032A / 02 / 30

P-1 Line Item Number / Title:
C65405 / MLRS Reduced Range Practice Rockets (RRPR)

Item Number / Title [DODIC]:
C65405 / MLRS Reduced Range

Practice Rockets (RRPR)

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

ID GGGG (A-Gervice Ready, B-Not Gervice Ready) .		111.57	ti /iti/tio oodo.			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	44,771	2,994	1,680	1,704	-	1,704
Gross/Weapon System Cost (\$ in Millions)	172.690	17.274	17.428	18.004	=	18.004
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	172.690	17.274	17.428	18.004	-	18.004
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	172.690	17.274	17.428	18.004	-	18.004
(The following Resource Summary rows are for inform	ational purposes only. The corre	esponding budget requests a	are documented elsewhere	e.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	3.857	5.770	10.374	10.566	-	10.566

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	rior Years	3	FY 2015		FY 2016		FY 2017 Base			FY 2017 OCO			FY 2017 Total				
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Flyaway Cost	'	'		'	'		'			'	'		'		'	'	'	
Recurring Cost																		
Reduced Range Practice Rocket (LCRRPR) ^(†)	3.850	33,561	129.208	4.413	2,994	13.212	7.921	1,680	13.308	8.085	1,704	13.777	-	-	-	8.085	1,704	13.777
Warheads Govt Furnished Equip (GFE)	-	-	16.461	-	-	1.364	-	-	1.376	-	-	1.423	-	-	-	-	-	1.423
Engineering Services	-	-	3.221	-	-	0.465	-	-	0.474	-	-	0.483	-	-	-	-	-	0.483
Test and Evaluation	-	-	3.801	-	-	0.071	-	-	0.072	-	-	0.073	-	-	-	-	-	0.073
First Destination Transportation	-	-	0.765	-	-	0.104	-	-	0.103	-	-	0.108	-	-	-	-	-	0.108
Project Management Admin	-	-	8.060	-	-	0.597	-	-	0.609	-	-	0.621	-	-	-	-	-	0.621
Production Engineering Support	-	-	11.173	-	-	1.461	-	-	1.487	-	-	1.519	-	-	-	-	-	1.519
Subtotal: Recurring Cost	-	-	172.691	-	-	17.275	-	-	17.428	-	-	18.004	-	-	-	-	-	18.004
Subtotal: Flyaway Cost	-	-	172.691	-	-	17.275	-	-	17.428	-	-	18.004	-	-	-	-	-	18.004
Gross/Weapon System Cost	3.857	44,771	172.690	5.770	2,994	17.274	10.374	1,680	17.428	10.566	1,704	18.004	-	-	-	10.566	1,704	18.004

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: C65405 / MLRS Reduced Range Practice Rockets (RRPR)	Item Number / Title [DODIC]: C65405 / MLRS Reduced Range Practice Rockets (RRPR)

ID Code (A=Service Ready, B=Not Service R	eady):					
Second	ary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1,703	1,080	1,092	-	1,092
	Total Obligation Authority	11.170	11.204	11.538	-	11.538
ANG	Quantity	1,291	600	612	-	612
	Total Obligation Authority	6.104	6.224	6.466	-	6.466
Total:	Quantity	2,994	1,680	1,704	<u>-</u>	1,704
Secondary Distribution	Total Obligation Authority	17.274	17.428	18.004	-	18.004

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2017	Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: C65405 / MLRS Reduced Range Practice Rockets (RRPR)	Item Number / Title [DODIC]: C65405 / MLRS Reduced Range
		Practice Rockets (RRPR)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
Reduced Range Practice Rocket (LCRRPR) ^(†)		2015	Lockheed Martin / Dallas, TX	SS / FFP	AMCOM,RSA,AL	Jan 2015	May 2016	2,994	4.413	Y		Sep 2013
Reduced Range Practice Rocket (LCRRPR) ^(†)		2016	Lockheed Martin / Dallas, TX	SS / FFP	AMCOM,RSA,AL	Dec 2015	Apr 2017	1,680	7.921	Y		Aug 2015
Reduced Range Practice Rocket (LCRRPR) ^(†)		2017	Lockheed Martin / Dallas, TX	SS / FFP	AMCOM,RSA,AL	Dec 2016	Apr 2018	1,062	9.484	Y		Feb 2016
Reduced Range Practice Rocket (LCRRPR) ^(†)		2017	Letterkenny Munitions Center / Chambersburg, PA	MIPR	LEMC, PA	Dec 2016	Apr 2018	642	5.771	Y		

^(†) indicates the presence of a P-21

Remarks:

Lockheed Martin is currently the industry source that is both facilitized and qualified to produce the Low Cost Reduced Range Practice Rocket (LCRRPR). LEMC has been established as the organic source that is both facilitized and qualified to produce the LCRRPR.

Letterkenny Munitions Center (LEMC) provides an organic dual source producing no less than 20 percent of the fiscal year procurement quantity.

In FY 2015, multiple issues impacted the planned RRPR buy of 2,994 rockets resulting in a shortage of 1,626 rockets. Efforts are currently underway to mitigate the shortfall and close the gap during FY 2016.

- * Sole Source/Firm Fixed Price
- ** Aviation and Missile Command, Redstone Arsenal, AL

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 Cost Elements (Units in Each) Calendar Year 2015	J F A E N B		C65 Prac	6405 / ctice f	MLR:	S Re ets (R	RRPR)	Rang	s E	E A L
Column C		F E B	M A	Cale A P	ndar Yea	J	Ü	U		L
PRIOR PRIOR DOT DUE OOT AS OF TO 1 DUE OOT AS OF TO 2014 1 OCT TO V COOL NOW BOUND Reduced Range Practice Rocket (LCRRPR) Prior Years Deliveries: 33561 1 2015 ARMY A A A A A A A A A		E B	Α	A P	м	J	Ü	U		- 4
Reduced Range Practice Rocket (LCRRPR) Prior Years Deliveries: 33561 1 2015 ARMY (XIV) 2,994 - 2,994 A	-					1		G	P	C
1 2015 ARMY (XIV) 2.994 - 2.994 A	-									
1 2015 MC (‡) (XV) 648 - 648 A	-									
1 2015 Total 3,642 - 3,642 - <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>250</td> <td>250</td> <td>0 250</td> <td>250</td> <td>250</td> <td>1,</td>	-	-	-	-	250	250	0 250	250	250	1,
1 2016 ARMY (XVI) 1,680 - 1,680 A - 1 1 2016 MC (†) (XVII) 648 - 648 A - 1 1 2016 Total 2,328 - 2,328 ARMY			-	-	53	53	3 54	54	55	
1 2016 MC (‡) (XVII) 648 - 648 A - 1 2016 Total 2,328 - 2,328 - 2,328 ARMY	-	-	-	-	303	303	3 304	304	305	2,
1 2016 Total 2,328 - 2,328 - ARMY		-	-	-	-	-	-	-	-	1,
ARMY	-	-	-	-	-	-	-	-	-	
1 2017 ARMY 1 1062 1 1062	-	-	-	-	-	-	-	-	-	2,
1 2017 _(XVIII) 1,062 - 1,062								_		1,
1 2017 MC (‡) (XIX) 648 - 648										
1 2017 Total 1,710 - 1,710										1,
2 2017 ARMY (XX) 642 - 642			1	_	_			1		
O N D J F M A M J J A S O N D C O E A E A P A U U U E C O E T V C N B R R Y N L G P T V C	A E	F E B	M A R	A P R	M A Y	U U	U L	A U G	S E P	

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Reduced Range Practice Rocker Prior Years Deliveries: 33561	ents ach) ACCEF PRIOI TO 1 OCT 2016 et (LCRRPR) 2,994 1,25	PT BAL DUE AS OF 1 OCT	O C T	et Su	D E C	J A N	F E B			MLRS				ge Pra	actice	Rock	kets (F	RRPR)	C654	Num 405 / N tice R	MLRS	Red	uced		e
(Units in Each	ACCEF PRIOF TO 1 OCT 2016 et (LCRRPR)	BAL DUE AS OF 1 OCT	С	0	E	A	F E		ar 2017																	
Proceedings Proceedings Proceedings Proceedings Proceedings Procedure Proced	PRIOF TO 1 OCT 2016 et (LCRRPR)	BAL DUE AS OF 1 OCT	С	0	E	A	E	м												Fiscal Ye	ar 2018					
Proceedings Proceedings Proceedings	TO 1 OCT 2016 ot (LCRRPR)	DUE AS OF 1 OCT	С	0	E	A	E	м		Cal	endar \	ear 2017	7								Calend	lar Year	2018			
Prior Years Deliveries: 33561 1 2015 ARMY (XIV) 2 1 2015 MC (‡) (XV)	2,994 1,25	0 1.744					D	A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
1 2015 ARMY ^(XIV) 1 2015 MC ^{(‡) (XV)}		0 1.744																								
1 2015 MC ^{(‡) (XV)}		0 1.744																								
		.,	250	250	250	250	250	250	244																	
4 2015 Total	648 26	379	55	55	55	54	54	53	53																	
	3,642 1,5	19 2,123	305	305	305	304	304	303	297					-	1	-		-	-							
7.0.000	1,680 -	1,680	-	-	-	-	-	-	140	140	140	140	140	140	140	140	140	140	140	140						
1 2016 MC (‡) (XVII)	648 -	648	-	-	-	-	-	-	53	53	54	54	55	55	55	55	54	54	53	53						
	2,328 -	2,328	-	-	-	-	-	-	193	193	194	194	195	195	195	195	194	194	193	193					-	
1 2017 ARMY (XVIII)	1,062 -	1,062			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88	88	88	88	89	89
1 2017 MC (‡) (XIX)	648 -	648	ı		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	54	54	54	54	54
1 2017 Total	1,710 -	1,710			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	142	142	142	142	143	143
2 2017 ARMY (XX)	642 -	642			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	53	53	54	54	54
			O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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C R FY SERVICE PROC OCT AS OF C O E A E A E A P A U U U E C N B R R Y N L G P T V C N B R R Y N L G P T V C N B R R Y N L G P T V C N B R R Y N L G P	C65405 / MLRS Reduced Range Practice Rockets (RRPR) Fiscal Year 2019 Fiscal Year 2020 Fiscal Year 2020 Fiscal Year 2020 Calendar Year 2019 Calendar Year 2019 Fiscal Year 2020 Calendar Year 2019 Fiscal Year 2020 Calendar Year 2019 Calendar Year 2019 Calendar Year 2019 Fiscal Year 2020 Calendar Year 2019 Calendar Year	C65405 / MLRS Reduced Range Practice Rockets (RRPR) Cost Elements (Units in Each) (Units in Each and Interest 2020 (Units in Each and Interest 2020 (Units	C65405 / MLRS Reduced Range Practice Rockets (RRPR) C65405 / MLRS Reduced Range Rockets (RRPR) C65405 / MLRS Reduced Range Rockets (RRPR) C65405 / MLRS Rockets (RRPR) C65405 / MLRS Rockets (RRPR) C6	Cost Elements (Units in Each) Reduced Range Practice Rockets (RRPR) Cost Elements (Units in Each) Reduced Range Practice Rockets (RRPR) Cost Elements (Units in Each) Reduced Range Practice Rockets (RRPR) Fiscal Year 2019 Fiscal Year 2019 Fiscal Year 2019 Calendar Year 2019 Ca				uary 2																-							-21, Pro		
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O N D J F M A M J J A S O N D J F M A M J J A S C O E A E A P A U U E	O N D J F M A M J J A S O N D J F M A M J J A S C O E A E A P A U U E C O E A E A P A U U E	O N D J F M A M J J A S O N D J F M A M J J A S C O E A E A P A U U E C O E A E A P A U U E	O N D J F M A M J J A S O N D J F M A M J J A S C O E A E A P A U U E C O E A E A P A U U E	O N D J F M A M J J A S O N D J F M A M J J C O E A E A P A U U U U E C O E A E A P A U U																		142	142	143	143	143	143	856	854	1,710	Total	2017	1
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LI C65405 - MLRS Reduced Range Practice Rockets (RRP... Army

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: C65405 / MLRS Reduced Range Practice Rockets (RRPR)	Item Number / Title [DODIC]: C65405 / MLRS Reduced Range
		Practice Rockets (RRPR)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MF	8					lni	tial			Red	order	
Ref	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
#	Name - Location	WISK FOR 2017	1-0-5 FOF 2017	WAX FOR 2017	Prior to Oct 1	Aiter Oct 1	PLI	After Oct 1	Prior to Oct 1	After Oct 1	PLI	After Oct 1
	Lockheed Martin - Dallas, TX	42	480	960	-	2	16	18	-	2	16	18
	Letterkenny Munitions Center - Chambersburg, PA	42	72	120	-	2	16	18	-	2	16	18

^(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Service/Agency Suffixes:

(XIV) BASE

(XV) BASE

(XVI) BASE

(XVII) BASE

(XVIII) BASE

(XIX) BASE

(XX) BASE

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Date: February 2016

Line Item MDAP/MAIS Code: N/A

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

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

Line item widap/wiais code: N/A	item wid	AP/IVIAIS COO	ie(s): N/A									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	10	10	-	-	-	-	-	10
Gross/Weapon System Cost (\$ in Millions)	-	-	-	-	4.777	4.777	-	-	-	-	-	4.777
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	-	4.777	4.777	-	-	-	-	-	4.777
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	-	4.777	4.777	-	-	-	-	-	4.777
(The following	Resource Sum	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	477.700	477.700	-	-	-	-	-	477.700

Description:

Lethal Miniature Aerial Missile System (LMAMS) is a single man-portable/operable, light-weight organic, beyond line-of-sight, precision guided, loitering aerial missile system capable of locating and engaging obscured and/or fleeting enemy targets who otherwise cannot be engaged by typical direct fire weapon systems. Front and Side Look High Resolution Electro-Optical (day) and Front Look Infrared (night) cameras allow the Warfighter to have "eyes on" the target for positive identification. LMAMS' Wave-Off capability allows the operator to wave-off or re-direct the LMAMS flight path up to seconds prior to impact if necessary. The system is comprised of a fire control unit, launcher, missile, and a modular payload capable of high lethality against unprotected Combatant Personnel and Fractional Casualty against Personnel in Soft Skinned Vehicles. Pre-flight Component Assembly and Storage allows operation within a matter of minutes.

Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	10	10	-	-	-	-
	Total Obligation Authority	-	-	-	4.777	4.777	-	-	-	-
Total:	Quantity	-	-	-	10	10	-	=	-	-
Secondary Distribution	Total Obligation Authority	-	-	-	4.777	4.777	-	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/

C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)

P-1 Line #12

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-5	C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)			- / -	- / -	- / -	- / -	10 / 4.777	10 / 4.777
P-40	Total Gross/Weapon System Cost			- 1 -	- 1 -	- 1 -	- 1 -	10 / 4.777	10 / 4.777

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

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

Justification:

FY 2017 Overseas Contingency Operations (OCO) dollars in the amount of \$4.777 million support the procurement of 10 fire control units, 10 training simulators, 10 battery chargers, and 50 inert training missiles, along with fielding and program management in order to support pre-deployment training and sustain the capability required by Joint Urgent Operational Needs Statement (JUONS) 0506 Mod 1.

Date: February 2016 Exhibit P-5, Cost Analysis: PB 2017 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2032A / 02 / 30 C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) (LMAMS)

ID Code (A=Service Ready, B=Not Service Ready):		М	DAP/MAIS Code:	·		
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	10	10
Gross/Weapon System Cost (\$ in Millions)	-	-	-	-	4.777	4.777
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	=	-	4.777	4.777
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	-	4.777	4.777
(The following Resource Summary rows are for information	onal purposes only. The cor	responding budget request	s are documented elsewhe	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	477.700	477.700

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	5		FY 2015			FY 2016		FY	/ 2017 Bas	se	F١	/ 2017 OC	0	F۱	/ 2017 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																	_	
Inert Training Missiles	-	-	-	-	-	-	-	-	-	-	-	-	56.830	50	2.842	56.830	50	2.84
Training Simulators	-	-	-	-	-	-	- 1	-	-	-	-	-	27.084	10	0.271	27.084	10	0.27
Fielding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.719	-	-	0.71
Subtotal: Recurring Cost	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-	3.832	-	-	3.83
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.832	-	-	3.83
Command and Launch Cost																		
Flight Control Units	-	-	-	-	-	-	-	-	-	-	-	-	25.320	10	0.253	25.320	10	0.25
Tactical Battery Chargers	-	-	-	-	-	-	-	-	-	-	-	-	3.680	10	0.037	3.680	10	0.03
Fielding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.360	-	-	0.36
Subtotal: Command and Launch Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.650	-	-	0.65
Support Cost	,						•							,			,	
Project Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.295	-	-	0.29
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.295	-	-	0.29
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	477.700	10	4.777	477.700	10	4.77

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)

ID Code (A=Service Ready, B=Not Ser	vice Ready):		MDAP/MAIS Code	9:		
Sec	condary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	10	10
	Total Obligation Authority	-	-	-	4.777	4.777
Total:	Quantity	-	-	-	10	10
Secondary Distribution	Total Obligation Authority	-	-	-	4.777	4.777

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

C50700 / Patriot Mods

Modifications

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

Program Elements for Code B Items: N/A Other Related Program Elements: 0607865A

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

Line item MDAI /MAIO COde. N/A	Item Mib	AI /IIIAIO OUU	ic(3). 14/A									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3,142.820	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,142.820	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,142.820	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The PATRIOT Mods program implements critical capability, readiness and sustainability modifications to the weapon system and maintains Integrated Logistics Support. Required modifications are identified through various means to include: validated requirement documents such as the Capability Production Document (CPD) and the Operational Needs Statement (ONS); material changes supported by improved operational effectiveness as identified in the PATRIOT Product Improvement Program (PIP); material deficiencies identified in the field; obsolescence issues; emerging technologies; software improvements; crew interface and communication upgrades.

PATRIOT Mods funding supports Reliability, Availability, and Maintainability (RAM) Mods; Recapitalization (RECAP); Battery Command Post/ Tactical Command System /Computer Software Module (BCP/TCS/CSM) Mod; the Combined Crypto Modification Phase I (CCMPI) upgrade; the Radar Digital Processor-Configuration (RDP-C) upgrade; the Air Defense Artillery (ADA) School Upgrades/ Training Aids, Devices, Simulators and Simulations (TADSS); PATRIOT Maintenance Trainer (PMT); PATRIOT Multi-Echelon Training (PMET); Reconfigurable Table Top Trainers (RT3); Assured Positioning, Navigation, and Timing (PNT); Test Detachment; the Modern Manstation (MMS) upgrade; Enhanced Launcher Electronic Systems (ELES); SIPRNet/NIPRNet Access Point/Troposcatter (SNAP/TROPO), and Digital Sidelobe Canceller (DSLC).

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 modification and design changes which are essential to stabilize the system at the highest readiness posture available and reduction of O&S. Kit quantity is based on expected Engineering Change Proposals (ECPs) to be applied to Major End Items (MEIs). Quantities will be procured at an optimized rate utilizing price advantage created through contract negotiation, other service procurement, and/or foreign military sales into a buy-to-budget procurement strategy.

Recapitalization (RECAP) Modifications include communication upgrades, Family of Medium Tactical Vehicles (FMTV), and Depot Maintenance Plant Equipment (DMPE). These modifications are synchronized within the RECAP program. RECAP is a battalion set, resulting in a more supportable, reliable, and capable unit in the force. Quantity represents 1 battalion a year.

The Battery Command Post/Tactical Command System/Computer Software Module (BCP/TCS/CSM) effort continues the development of the Capabilities Development Document (CDD) required Battle Management, Command, Control, Communications, Computers, and Intelligence (BMC4I) capability to maintain compatibility with tactical software enhancements, while enhancing and improving the defense design and planning capabilities for the PATRIOT warfighter. This includes systems engineering, software requirements, software design/code/test and independent validation and verification testing. This effort also provides Integrated Logistics Support, required due to the large amount of Commercial Off The Shelf components, of the 62 Battery Command Posts and 17 Tactical Command Systems. Additionally,

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army	Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:			
2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:	C50700 / Patriot Mods			
Modifications				

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

Program Elements for Code B Items: N/A

Other Rela

Other Related Program Elements: 0607865A

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

this effort supports the BCP/TCS/CSM fielding upgrades for each PATRIOT Post Deployment Build update, as well as working obsolescence alleviation and engineering changes. Efforts support updates for interoperability and supportability. Note: Quantities procured and installed in prior years.

Combined Crypto Modification Phase I (CCMPI): The planned PATRIOT communications upgrade program is a phased approach leveraging National Security Agency (NSA) mandated crypto updates, user generated requirements, (PATRIOT Data Information Link (PADIL) over IP), Beyond Line of Sight (BLOS) communications, and communications hardware obsolescence mitigation efforts. This approach allows cost efficiencies and better business practices by synergizing these efforts. CCMPI is fully funded and addresses the PAC-3 Capability Production Document (CPD) requirements including the crypto modernization, a limited PADIL over Internet Protocol (IP) capability, and 3011C multi-cast (protocol). CCMPI installs a Black Station Clock Upgrade (BSCU) to allow for increased data rates; the Ruggedized iQ1000 (RiQ) for data processing and IP overlay; and interfaces for soldier provided SIPR/NIPR devices. The CCMPI program also replaces KG-94A/194A encryptors with KIV-7M encryptors.

The Radar Digital Processor-Configuration (RDP-C) replaces obsolete digital processors with single rack commercial off-the-shelf based modern processors. Battery Replaceable Units (BRUs) are reduced from 759 to 56 with 13 power supplies and 18 racks removed. Benefits of the RDP-C include improvement in radar reliability, life cycle cost savings, and capability and growth potential through software improvements. The RDP-C modification will enable full AN/TPX-57(v)1 Identification Friend or Foe (IFF) Mode 5 Level 1 and 2 and new Combat Identification capabilities. The enhanced IFF capability allows for expanded target reports from the AN/TPX-57 which will include: National Origin, Platform ID Number (PIN), and GPS position (Level 2). The RDP-C is a prerequisite for migration to an IAMD Netted Sensor. The RDP-C will support efforts to counter emerging threats and growth to the netted sensor concept. This effort includes funding for kits and some spares.

The Air Defense Artillery (ADA) School Upgrades/Training Aids, Devices, Simulators and Simulations (TADSS) modification is necessary to upgrade school assets to Configuration 3. Four Enhanced Launcher Electronics Systems (ELES) and four Radar Kits will complete the school upgrades.

The PATRIOT Weapons System uses tactical equipment and training aids, devices, simulators, and simulations (TADSS) to conduct multi-level training for both operators and maintenance personnel. This includes both hardware devices and software programs utilized to include; the Patriot Maintenance Trainer (PMT), Reconfigurable Table Top Trainer (RT3) and the Patriot Multi-Echelon Training (PMET). The PMT is a new device being developed and planned for fielding to the Air Defense Artillery Schools at Fort Sill, OK. The PMT trains 14E, 140E, 14T, 94S and 948D 6D tasks. It reduces dependency on tactical equipment by merging physical simulators and virtual simulations replicating a realistic training environment. The PMT will have one instructor station, one radar set, one launching station, and an engagement control station. Some components will be actual physical representations of the tactical hardware while other components will be virtually simulated using state of the art gaming technology of P-MET. The two environments will work seamlessly together to simulate the tactical end items. P-MET is a Microsoft Windows® based software application utilizing state of the art gaming technology to train U.S. Army personnel in the proper trouble-shooting techniques to repair and maintain the PATRIOT Missile System. P-MET is the Life Cycle Replacement for the PATRIOT Intermediate Maintenance Institutional, Field and depot environment. P-MET is designed and developed to operate on the RT3. The RT3 provides a flexible training platform that may be configured to support multiple raining levels and systems, via removable hard drives. In PATRIOT the RT3 is used to run the PATRIOT tactical embedded training software (re-hosted tactical training software, PATRIOT Conduct of Fire Trainer (PCOFT)) for operations tasks, the P-MET software for maintenance tasks, and the PATRIOT Skills Library (PSL) lessons for both maintenance and operator tasks. Other weapon systems may also use the RT3 platform for training (i.e., C-RAM, THAAD, and

The Modern Manstation (MMS) is designed to significantly improve the reliability of the legacy Manstation by replacing 221 obsolete parts in 41 assemblies and reducing Battery Replaceable Units (BRUs) from 493 to 51. Benefits of the MMS include the installation of two 30" high resolution color LCD displays with touch panels; significant increase in Mean Time Between Failure rates; elimination of a costly Multi-Volt power supply while greatly improving the overall visual graphics used for decision making. The MMS upgrades increased Warfighter effectiveness; enable future capabilities; increase reliability; and reduce life cycle costs. Training will be aligned with the tactical system using the same technology, providing geopolitical maps, and utilizing color symbology for immediate recognition of friend, foe or unknown. Soft keys will enable future switch configurations with software upgrades. The MMS also enables future graphical user interface with Common Warfighter Machine Interface (CWMI) systems. The MMS modification upgrade will be incorporated into the Engagement Control Station (ECS) and the Information and Coordination Central (ICC) Shelters.

The Enhanced Launcher Electronics System (ELES) modification upgrades a PAC-2 Launcher to a PAC-3 Capability.

SIPRNet/NIPRNet Access Point/Troposcatter (SNAP/TROPO). The SNAP/TROPO program provides units with an organic Beyond Line of Sight (BLOS) capability to support both intra battalion and external battalion communications. Troposcatter terminals allow connectivity between PATRIOT shelters when local terrain or long distances make organic Ultra High Frequency (UHF) Line of Sight (LOS)

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P-1 Line #13

Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	
2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:	C50700 / Patriot Mods	
Modifications		

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

Program Elements for Code B Items: N/A

Other Related Program Elements: 0607865A

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

communications impossible to support fire control quality data exchanges. SNAP terminals allow a PATRIOT shelter without access to any local infrastructure to remotely connect to both SIPRnet and NIPRnet using Ku, Ka, or X band satellites for range extension in response to Operational Need Statements from combatant commands.

Assured Position, Navigation and Timing (PNT) - Purchases integrated Project Manager (PM) PNT M-code capable hardware for integration on Patriot Major End Items (MEI). Effort supports mandated FY2011 National Defense Authorization Act; public law 111-383 § 913.

Test Detachment - A manned and equipped unit consisting of various ancillary PATRIOT Ground Support Equipment elements that will assume the testing role and relieve operational units. The Air and Missile Defense (AMD) test detachment is a Table of Distribution and Allowances (TDA) unit consisting of 143 personnel containing a mixture of air defense, communications and maintenance Military Occupational Specialty (MOS) Soldiers which participate in all government developmental tests, missile flight tests, Tactics Techniques and Procedures (TTP) development and operational testing in support of the development, modernization and sustainment of current and future AMD programs. Use of this detachment to support testing versus tasking operational PATRIOT units allows execution of currently scheduled testing while vastly minimizing the stress on the 15 PATRIOT Battalions in the operational force.

Digital Sidelobe Canceller (DSLC) is an Electronic Counter Measures (ECM) technique used to cancel the interference that is entering the radar via the antenna sidelobes. This is currently being performed using analog hardware in the PATRIOT radar. DSLC replaces the analog hardware and performs this task digitally in the radars processor. Benefits of the DSLC include improved Side Lobe Canceller (SLC) Reliability and Maintainability, removal of complicated SLC adjustments, improves radar availability, removes 5 SLC Racks, provides hardware base for improved capability, and eliminates known and future obsolescence in SLC racks.

Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760

LI C50700 - Patriot Mods
Army

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P-1 Line #13

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

C50700 / Patriot Mods

Modifications

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

Program Elements for Code B Items: N/A

Other Related Program Elements: 0607865A

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	C50700 / PATRIOT MODS (Various)			- / 3,142.820	- / 183.838	- / 241.883	- / 197.107	- / -	- / 197.107
P-40	Total Gross/Weapon System Cost			- / 3,142.820	- / 183.838	- / 241.883	- / 197.107	- 1 -	- /197.107
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	C50700 / PATRIOT MODS (Various)			- / 318.940	- / 304.064	- /201.403	- / 168.760	Continuing	Continuing
P-40	Total Gross/Weapon System Cost			- / 318.940	- / 304.064	- / 201.403	- / 168.760	Continuing	Continuing

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

Justification:

FY 2017 base procurement dollars in the amount of \$197.107 million supports the modifications for Reliability, Availability, and Maintainability Modifications (RAM Mods), Recapitalization (RECAP), Battery Command Post/ Tactical Command System/ Computer Software Module (BCP/TCS/CSM), Combined Crypto Modification Phase I (CCMPI), Radar Digital Processor-Configuration (RDP-C), SIPRNet/NIPRNet Access Point/Troposcatter (SNAP/TROPO), PATRIOT Maintenance Trainer (PMT), PATRIOT Multi-Echelon Training (PMET), Reconfigurable Table-Top Trainers (RT3), Assured Position, Navigation and Timing (PNT), Test Detachment, and Digital Sidelobe Canceller (DSLC).

Efforts have been and will continue to be made to expedite PATRIOT materiel solutions (e.g. Radar Digital Processor and Communications Upgrades) to both enhance capability and facilitate integration into the Integrated Air and Missile Defense (IAMD) architecture.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

LI C50700 - Patriot Mods
Army

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

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
2032A / 03 / 10	C50700 / Patriot Mods	C50700 / PATRIOT MODS

2032A 1 03 1 10	CSC/105/10 CSC/00/1 ATRIOT										MODS	
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3,142.820	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,142.820	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,142.820	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)										ĺ		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
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: validated requirements documents such as Capability Production Documents and Operational Needs Statements; material changes identified in the PATRIOT Product Improvement Program (PIP); material deficiencies identified in the field; obsolescence issues; emerging technologies; software improvements; crew interface and communications upgrades.

				FY 2017	FY 2017	FY 2017				
Seconda	ry Distribution	FY 2015	FY 2016	Base	осо	Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760
Total:	Quantity	-	-	-	-	-	-	-		-
Secondary Distribution	Total Obligation Authority	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760

LI C50700 - Patriot Mods
Army

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P-1 Line #13

Exhibit P-3a, Individual Modification: PB 2017 ArmyDate: February 2016Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:
C50700 / Patriot ModsModification Number / Title:
C50700 / PATRIOT MODS

2032A / 03 / 10			C50700 / Patriot Mods							C50700 / PATRIOT MODS				
Models of Systems Affected: Various		Modifi	cation Typ	e: Various		T&E PEs:								
Financial Plan	Prior Years Oty (Each) I	FY 2015 Qty (Each) I	FY 2016 Oty (Each) I	FY 2017 Base	FY 2017 OCO Qty (Each) I	FY 2017 Total	FY 2018 Oty (Each) I	FY 2019 Oty (Each) I	FY 2020 Oty (Each) I	FY 2021 Qty (Each) I	To Complete	Total Oty (Each)		
	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$		
Procurement														
Modification Item 1 of 15: RAM Mods														
A Kits														
Recurring						1								
Kit Quantity	6,382 / 611.242	90 / 11.317	110 <i>l</i> 17.100	129 / 17.061	- 1 -	129 / 17.061	131 / 15.446	126 / 14.322	162 / 19.305	145 / 21.409	6,838 / -	14,11 727.2		
Training	0 / 38.509	- /10.224	- / 13.000	- <i>I</i> 12.925	- 1 -	- <i>I</i> 12.925	- /11.702	- / 10.850	- / 14.625	- /16.490	- 1 -	- / 128.3		
Training Equipment	0 / 15.586	- /5.643	- /2.500	- /2.585	- 1 -	- /2.585	- /2.340	- /2.170	- /2.925	- /2.680	- 1 -	- / 36.4		
Support Equipment	0 / 24.087	- /8.441	- / 6.850	- /6.721	- 1 -	- 16.721	- /6.085	- /5.642	- 17.605	- /8.433	- 1 -	- 173.8		
Other	0 / 46.242	- <i>I</i> 13.225	- / 11.550	- / 11.374	- 1 -	- / 11.374	- / 10.297	- / 9.548	- / 12.870	- / 14.127	- 1 -	- / 129.2		
Integrated Logistics Support	0 / 7.487	- / 1.150	- /1.100	- /1.034	- 1 -	- /1.034	- / 0.939	- / 0.868	- / 1.170	- / 1.861	- 1 -	- / 15.6		
Subtotal: Recurring	- /743.153	- /50.000	- /52.100	- /51.700	- / -	- /51.700	- /46.809	- /43.400	- /58.500	- /65.000	- / -	- /1,110.		
Subtotal: RAM Mods	6,382 / 743.153	90 / 50.000	110 / 52.100	129 / 51.700	- / -	129 / 51.700	131 / 46.809	126 / 43.400	162 / 58.500	145 / 65.000	6,838 / -	14,1 1,110.		
Modification Item 2 of 15: Recapitalization			l .	I	I	1	l					, -		
A Kits														
Recurring														
Kit Quantity	12 / 200.139	1 / 10.000	1 / 11.200	1 / 12.411	- 1 -	1 / 12.411	1 / 12.650	1 / 13.100	1 / 13.700	1 / 13.400	11 / -	30 / 286.		
Integrated Logistics Support	0 / 12.606	- /2.000	- /1.900	- / 0.802	- 1 -	- /0.802	- / 1.650	- /1.100	- /0.300	- / 0.500	- 1 -	- /20.		
Subtotal: Recurring	- /212.745	- /12.000	- /13.100	- /13.213	- / -	- /13.213	- /14.300	- /14.200	- /14.000	- /13.900	- / -	- /307.		
Subtotal: Recapitalization	12 / 212.745	1 / 12.000	1 / 13.100	1 / 13.213	- / -	1 / 13.213	1 / 14.300	1 / 14.200	1 / 14.000	1 / 13.900	11 / -	30 / 307.		
Modification Item 3 of 15: BCP/TCS/CSM														
A Kits														
Recurring	-													
Engineering Change Orders	0 / 1.015	- / 0.400	- / 0.660	- /0.770	- 1 -	- /0.770	- /0.770	- /0.770	- /0.770	- /0.770	- 1 -	- /5.		
Fielding Support	0 / 2.639	- / 0.500	- / 0.840	- / 0.980	- 1 -	- / 0.980	- / 0.980	- / 0.980	- / 0.980	- / 0.980	- 1 -	- /8.		
Obsolescence/Tech Refresh	0 / 0.393	- /0.100	- / 0.240	- / 0.280	- 1 -	- /0.280	- /0.280	- /0.280	- /0.280	- /0.280	- 1 -	- 12.		
Software/Systems Engineering	0 / 27.710	- / 0.500	- / 0.840	- / 0.980	- / -	- /0.980	- /0.980	- /0.980	- /0.980	- /0.980	- 1 -	- / 33.		
Integrated Logistics Support	0 / 36.790	- /2.000	- /3.420	- /3.990	- 1 -	- /3.990	- /3.990	- /3.990	- /3.990	- /3.990	- 1 -	- /62.		
Subtotal: Recurring	- /68.547	- /3.500	- /6.000	- /7.000	- / -	- /7.000	- /7.000	- /7.000	- /7.000	- /7.000	- / -	- / 113.		
Non-Recurring				1										
BCP Kit Quantity	62 / 29.435	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	62 / 29.		
TCS Kit Quantity	17 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	17 <i>l</i>		
Subtotal: Non-Recurring	- /29.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /29.4		

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Exhibit P-3a, Individual Modification: PB 2017 ArmyDate: February 2016Appropriation / Budget Activity / Budget Sub Activity:
2032A / 03 / 10P-1 Line Item Number / Title:
C50700 / Patriot ModsModification Number / Title:
C50700 / PATRIOT MODS

032A / 03 / 10			C50700 / F	atriot woo	ıs				C507007	PATRIOT I	พบบธ	
Models of Systems Affected: Various		Modifi	cation Typ	e: Various			Re	lated RDT	&E PEs:			
	Prior Years Qty (Each) I	FY 2015 Qty (Each) I	FY 2016 Qty (Each) I	FY 2017 Base	FY 2017 OCO Qty (Each) I	FY 2017 Total	FY 2018 Qty (Each) I	FY 2019 Qty (Each) I	FY 2020 Qty (Each) I	FY 2021 Qty (Each) I	To Complete	Total Qty (Each)
Financial Plan	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)			Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$)
Subtotal: BCP/TCS/CSM	79 / 97.982	- /3.500	- /6.000	- /7.000	- / -	- /7.000	- /7.000	- /7.000	- /7.000	- /7.000	- / -	79 / 142.4
Modification Item 4 of 15: Combined Crypto Modification Phase I (CCMPI)												,
A Kits												
Recurring												
Kit Quantity	33 / 11.770	39 / 12.500	78 / 25.400	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	150 / 49.6
Kit Quantity (GFE)	- 1 -	- / 0.268	- / 0.268	- / 0.268	- 1 -	- / 0.268	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /0.8
Subtotal: Recurring	- /11.770	- /12.768	- /25.668	- /0.268	- / -	- /0.268	- / -	- / -	- / -	- / -	- / -	- /50.4
Non-Recurring												,
Training	- 1 -	- / 0.132	- / 0.132	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /0.2
Subtotal: Non-Recurring	- / -	- /0.132	- /0.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /0.2
Subtotal: Combined Crypto Modification Phase I (CCMPI)	33 / 11.770	39 / 12.900	78 / 25.800	- /0.268	- / -	- /0.268	- / -	- / -	- / -	- / -	- / -	150 / 50.7
Modification Item 5 of 15: Radar Digital Processor - Configuration (RDP-C)		'	1	'								
A Kits												
Recurring												
Kit Quantity	67 / 188.766	13 / 52.000	- / -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	80 / 240.7
Fielding	- 1 -	- 1 -	- /4.000	- /4.000	- 1 -	- /4.000	- /4.000	- /2.000	- 1 -	- 1 -	- 1 -	- / 14.0
Support Equipment	0 / 10.942	- /26.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /36.9
Subtotal: Recurring	- /199.708	- /78.000	- /4.000	- /4.000	- / -	- /4.000	- /4.000	- /2.000	- / -	- / -	- / -	- /291.7
Subtotal: Radar Digital Processor - Configuration (RDP-C)	67 / 199.708	13 / 78.000	- /4.000	- /4.000	- / -	- /4.000	- /4.000	- /2.000	- / -	- / -	- / -	80 / 291.7
Modification Item 6 of 15: Air Defense Artillery School Upgrades/ TADSS									,			,
A Kits												
Recurring												
ELES Kit Quantity	4 / 13.838	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	4 / 13.8
Radar Kit Quantity	- 1 -	- 1 -	4 / 96.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	4 / 96.0
Subtotal: Recurring	- /13.838	- / -	- /96.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /109.8
Subtotal: Air Defense Artillery School Upgrades/ TADSS	4 / 13.838	- / -	4 / 96.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 109.8
Modification Item 7 of 15: Modern Manstation (MMS)												
A Kits												
Recurring												

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Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 03 / 10

Date: February 2016

Modification Number / Title:

C50700 / Patriot Mods

C50700 / PATRIOT MODS

Models of Systems Affected: Various		Modifi	cation Typ	e: Various			Related RDT&E PEs:						
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ I											
Fielding	0 / 1.625	- /3.900	- /2.300	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 17.82	
Support Equipment	0 / 55.842	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 55.84	
Subtotal: Recurring	- /57.467	- /3.900	- /2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /63.6	
Non-Recurring												,	
Kit Quantity	82 / 55.842	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	82 / 55.8	
Subtotal: Non-Recurring	- /55.842	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 55.8	
Subtotal: Modern Manstation (MMS)	82 / 113.309	- /3.900	- /2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / 119.5	
Modification Item 8 of 15: Enhanced Launcher Electronics System (ELES)												,	
A Kits													
Recurring													
Kit Quantity	197 / 34.304	- 1 -	8 / 33.000	- 1 -	- 1 -	- 1 -	25 / 94.810	39 / 147.564	22 / 87.403	15 / 61.360	Continuing	Continuing	
Subtotal: Recurring	- /34.304	- / -	- /33.000	- / -	- / -	- / -	- /94.810	- /147.564	- /87.403	- /61.360	Continuing	Continuing	
Subtotal: Enhanced Launcher Electronics System (ELES)	197 / 34.304	- / -	8 / 33.000	- / -	- / -	- / -	25 / 94.810	39 / 147.564	22 / 87.403	15 / 61.360	Continuing	Continuing	
Modification Item 9 of 15: SNAP/TROPO													
A Kits													
Recurring													
Kit Quantity SNAP	4 / 0.548	- 1 -	- 1 -	14 / 1.976	- 1 -	14 / 1.976	7 / 2.371	8 / 0.659	1 / 0.082	- 1 -	- / -	34 / 5.6	
Support	0 / 1.799	- 1 -	- 1 -	- /5.958	- 1 -	- /5.958	- /8.419	- /2.181	- / 0.427	- 1 -	- 1 -	- / 18.7	
Integrated Logistics Support	0 / 1.048	- 1 -	- 1 -	- /2.186	- 1 -	- /2.186	- /2.581	- /2.581	- / 1.582	- 1 -	- 1 -	- /9.9	
Training	0 / 0.089	- 1 -	- 1 -	- / 0.113	- 1 -	- /0.113	- / 0.172	- / 0.055	- / 0.028	- 1 -	- / -	- /0.4	
Equipment	0 / 0.859	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.8	
Subtotal: Recurring	- /4.343	- / -	- / -	- /10.233	- / -	- /10.233	- /13.543	- /5.476	- /2.119	- / -	- / -	- /35.7	
Non-Recurring													
Kit Quantity TROPO	10 / 4.689	- 1 -	- 1 -	30 / 15.367	- 1 -	30 / 15.367	18 / 19.887	18 / 5.424	6 / 0.181	- 1 -	- 1 -	82 / 45.54	
Subtotal: Non-Recurring	- /4.689	- / -	- / -	- /15.367	- / -	- /15.367	- /19.887	- /5.424	- /0.181	- / -	- / -	- /45.54	
Subtotal: SNAP/TROPO	14/9.032	- / -	- / -	44 / 25.600	- / -	44 / 25.600	25 / 33.430	26 / 10.900	7 / 2.300	- / -	- / -	116 / 81.20	
Modification Item 10 of 15: PATRIOT Maintenance Trainer (PMT)									,				
A Kits													
Recurring													
Kit Quantity	- 1 -	1 / 15.941	- 1 -	1 / 15.000	- 1 -	1 / 15.000	2 / 27.000	- 1 -	- 1 -	1 / 10.000	- 1 -	5 / 67.94	
	1				1			1					

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Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A / 03 / 10

Date: February 2016

Modification Number / Title:
C50700 / Patriot Mods

C50700 / PATRIOT MODS

032A / 03 / 10			C5070071	700 / Patriot Mods C50700 / PATRIOT MODS								
Models of Systems Affected: Various		Modifi	cation Typ	e: Various			Re	lated RDT	&E PEs:			
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each Total Cost (
Non-Recurring		,										
Training Support	- 1 -	- 1 -	- /4.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1
Subtotal: Non-Recurring	- / -	- / -	- /4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /
Subtotal: PATRIOT Maintenance Trainer (PMT)	- / -	1 / 15.941	- /4.000	1 / 15.000	- / -	1 / 15.000	2 / 27.000	- / -	- / -	1 / 10.000	- / -	5/7
Modification Item 11 of 15: PATRIOT Multi-Echelon Training (PMET)												
A Kits												
Recurring												
Kit Quantity	- 1 -	4 / 6.497	4 / 4.383	4 / 5.300	- 1 -	4 / 5.300	4 / 5.600	4 / 6.000	4 / 10.000	4 / 10.000	- 1 -	28 / 4
Subtotal: Recurring	- / -	- /6.497	- /4.383	- /5.300	- / -	- /5.300	- /5.600	- /6.000	- /10.000	- /10.000	- / -	- /4
Subtotal: PATRIOT Multi-Echelon Training (PMET)	- / -	4/6.497	4 / 4.383	4 / 5.300	- / -	4 / 5.300	4 / 5.600	4/6.000	4 / 10.000	4 / 10.000	- / -	28/4
Modification Item 12 of 15: Reconfigurable Table Top Trainers (RT3)												
A Kits												
Recurring												
Kit Quantity	- 1 -	- 1 -	- 1 -	34 / 7.500	- 1 -	34 / 7.500	- 1 -	70 / 15.000	- 1 -	- 1 -	- 1 -	104 / 2
Subtotal: Recurring	- / -	- / -	- / -	- /7.500	- / -	- /7.500	- / -	- /15.000	- / -	- / -	- / -	- /2
Subtotal: Reconfigurable Table Top Trainers (RT3)	- / -	- / -	- / -	34 / 7.500	- / -	34 / 7.500	- / -	70 / 15.000	- / -	- / -	- / -	104/2
Modification Item 13 of 15: Assured PNT												
A Kits												
Recurring												
Hardware Integration	- 1 -	- 1 -	- 1 -	615 / 3.000	- 1 -	615 / 3.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	615 <i>l</i>
Subtotal: Recurring	- / -	- / -	- / -	- /3.000	- / -	- /3.000	- / -	- / -	- / -	- / -	- / -	- /
Subtotal: Assured PNT	- / -	- / -	- / -	615 / 3.000	- / -	615 / 3.000	- / -	- / -	- / -	- / -	- / -	615/
Modification Item 14 of 15: Test Detachment												
A Kits												
Recurring												
Equipment	- 1 -	- 1 -	- 1 -	1 / 49.409	- 1 -	1 / 49.409	- / 6.591	- 1 -	- 1 -	- 1 -	- 1 -	1/5
Subtotal: Recurring	- / -	- / -	- / -	- /49.409	- / -	- /49.409	- /6.591	- / -	- / -	- / -	- / -	- /5
Subtotal: Test Detachment	- / -	- / -	- / -	1 / 49.409	- / -	1 / 49.409	- /6.591	- / -	- / -	- / -	- / -	1/5
Modification Item 15 of 15: Digital Sidelobe Canceller (DSLC)											•	
A Kits												

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Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A / 03 / 10

P-1 Line Item Number / Title:
C50700 / Patriot Mods

C50700 / PATRIOT MODS

2032A / 03 / 10			C50700 / Patriot Mods C50700 / PATRIOT MODS									
Models of Systems Affected: Various		Modifi	cation Typ	e: Various			Re	lated RDT	&E PEs:			
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M
Recurring												
Kit Quantity	- 1 -	- 1 -	- 1 -	5 / 12.900	- 1 -	5 / 12.900	38 / 77.800	28 / 56.800	10 / 20.800	- 1 -	- 1 -	81 / 168.300
Subtotal: Recurring	- / -	- / -	- / -	- /12.900	- / -	- /12.900	- /77.800	- /56.800	- /20.800	- / -	- / -	- /168.30
Subtotal: Digital Sidelobe Canceller (DSLC)	- / -	- / -	- / -	5 / 12.900	- / -	5 / 12.900	38 / 77.800	28 / 56.800	10 / 20.800	- / -	- / -	81 / 168.300
Subtotal: Procurement, All Modification Items	6,870 / 1,435.841	148 / 182.738	205 / 240.683	834 / 194.890	- / -	834 / 194.890	226 / 317.340	294 / 302.864	206 / 200.003	166 / 167.260	Continuing	Continuing
Installation												
Modification Item 1 of 15: RAM Mods	6,296 / 151.613	44 / -	88 / -	100 / -	- / -	100 / -	120 / -	126 / -	132 / -	144 / -	7,063 / -	14,113 151.613
Modification Item 2 of 15: Recapitalization	12 / 211.291	1 / 1.000	1 / 1.000	1 / 0.985	- 1 -	1 / 0.985	1 / 1.100	1 / 1.200	1 / 1.400	1 / 1.500	11 / -	30 / 219.476
Modification Item 3 of 15: BCP/TCS/CSM	79 / 1,344.075	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	79 / 1,344.075
Modification Item 4 of 15: Combined Crypto Modification Phase I (CCMPI)	0 / 0.000	17 / 0.100	36 / 0.200	59 / 1.232	- 1 -	59 / 1.232	38 / 0.500	- 1 -	- 1 -	- 1 -	- / -	150 / 2.032
Modification Item 5 of 15: Radar Digital Processor - Configuration (RDP-C)	62 / 0.000	- 1 -	41 -	1/ -	- / -	1/ -	71 -	6/ -	- 1 -	- 1 -	- 1 -	80 / -
Modification Item 6 of 15: Air Defense Artillery School Upgrades/ TADSS	0 / 0.000	1/ -	3/ -	1/ -	- / -	1/ -	3/ -	- / -	- 1 -	- 1 -	- 1 -	8/ -
Modification Item 7 of 15: Modern Manstation (MMS)	16 / 0.000	18 / -	48 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	821 -
Modification Item 8 of 15: Enhanced Launcher Electronics System (ELES)	187 / 0.000	10 / -	- 1 -	8/ -	- 1 -	8/ -	- 1 -	25 / -	39 / -	221 -	86 / -	3771 -
Modification Item 9 of 15: SNAP/TROPO	0 / 0.000	14 / -	- 1 -	- 1 -	- 1 -	- 1 -	44 / -	25 / -	26 / -	71 -	- 1 -	116/ -
Modification Item 10 of 15: PATRIOT Maintenance Trainer (PMT)	0 / 0.000	1/ -	- 1 -	1/ -	- / -	1/ -	21 -	- 1 -	- 1 -	1/ -	- 1 -	5/ -
Modification Item 11 of 15: PATRIOT Multi-Echelon Training (PMET)	0 / 0.000	41 -	41 -	41 -	- / -	41 -	41 -	41 -	41 -	41 -	- / -	28 / -
Modification Item 12 of 15: Reconfigurable Table Top Trainers (RT3)	0 / 0.000	- 1 -	- 1 -	- / -	- / -	- 1 -	34 / -	- / -	70 / -	- 1 -	- / -	104 / -
Modification Item 13 of 15: Assured PNT	0 / 0.000	- 1 -	- 1 -	615 <i>1</i> -	- 1 -	615 <i>l</i> -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	615 <i>l</i> -
Modification Item 14 of 15: Test Detachment	0 / 0.000	- 1 -	- 1 -	1/ -	- 1 -	1/ -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1/ -
Modification Item 15 of 15: Digital Sidelobe Canceller (DSLC)	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	51 -	38 / -	281 -	10 / -	81 / -
Subtotal: Installation	6,652 / 1,706.979	110 / 1.100	184 / 1.200	791 / 2.217	- / -	791 / 2.217	253 / 1.600	192 / 1.200	310 / 1.400	207 / 1.500	7,170/ -	15,869 1,717.196
Total												
Total Cost (Procurement + Support + Installation)	3,142.820	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2017 Army	Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: C50700 / Patriot Mods	Modification Number / Title: C50700 / PATRIOT MODS
Modification Item 1 of 15: RAM Mods		•

//odification Item 1 of 15: RAM Mod	s
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Manufacturer Informat	ion														
Manufacturer Name: Ra	ytheon			Manufacturer Location: Ar	ndover, MA										
Administrative Leadtime	nistrative Leadtime (in Months): 2 Production Leadtime (in Months): 14														
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021								
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020								
Delivery Dates	Feb 2016	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021	Feb 2022								

Installation Information

Method of Implementation: Lead Logistics Fielding Team

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	6,296 / 151.613	44 / 0.000	42 / 0.000	- / 0.000	- 1 -	- /0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	6,382 / 151.613
FY 2015	0 / 0.000	- 1 -	46 / -	44 / -	- 1 -	44 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	90 / -
FY 2016	0 / 0.000	- 1 -	- 1 -	56 / -	- 1 -	56 / -	54 / -	- 1 -	- 1 -	- 1 -	- 1 -	110 / -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	66 / -	63 / -	- 1 -	- 1 -	- 1 -	129 / -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	63 / -	68 / -	- 1 -	- 1 -	131 / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	64 / -	621 -	- 1 -	126 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	821 -	80 / -	162 / -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	145 / -	145 / -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	6,838 / -	6,838 / -
Total	6,296 / 151.613	44 / -	88 / -	100 / -	- 1 -	100 / -	120 / -	126 / -	132 / -	144 / -	7,063 / -	14.113 / 151.613

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot																
In	6,382	27	22	22	21	21	23	23	22	22	28	28	27	27	33	33	32	31	32	31	31	37	32	32	31	31	41	41	40	6,910	14,113
Out	6,318	27	27	22	22	21	21	23	23	22	22	28	28	27	27	33	33	32	31	32	31	31	37	32	32	31	31	41	41	6,987	14,113

UNCLASSIFIED LI C50700 - Patriot Mods 95 Page 11 of 25 P-1 Line #13 Army

Exhibit P-3a, Indiv	vidual Modification: Pl	3 2017 Army				Date: February 2016	3								
Appropriation / Bu 2032A / 03 / 10	udget Activity / Budge	t Sub Activity:	P-1 Line Item Num C50700 / Patriot Mo			Modification Numb									
Modification Item 2 of	dification Item 2 of 15: Recapitalization														
Manufacturer Informat	nufacturer Information														
Manufacturer Name: Va	rious			Manufacturer Location: Va	arious										
Administrative Leadtime	(in Months): 6			Production Leadtime (in N	fonths): 12										
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021								
Contract Dates	Apr 2015	Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021								
Delivery Dates	Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021	Apr 2022								

Installation Information

Method of Implementation: Various

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	10 / 208.359	1 / 1.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	11 / 209.359
FY 2015	2 / 2.932	- 1 -	1 / 1.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3 / 3.932
FY 2016	0 / 0.000	- 1 -	- 1 -	1 / 0.985	- 1 -	1 / 0.985	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1 / 0.985
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1 / 1.100	- 1 -	- 1 -	- 1 -	- 1 -	1 / 1.100
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1 / 1.200	- 1 -	- 1 -	- 1 -	1 / 1.200
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1 / 1.400	- 1 -	- 1 -	1 / 1.400
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1 / 1.500	- 1 -	1 / 1.500
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1/ -	1/ -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	10 / -	10 / -
Total	12 / 211.291	1 / 1.000	1 / 1.000	1 / 0.985	- 1 -	1 / 0.985	1 / 1.100	1 / 1.200	1 / 1.400	1 / 1.500	11/ -	30 / 219.476

Installation Schedule

			FY 2	2015	-		FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	тс	Tot																								
In	12	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	11	30
Out	11	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	12	30

LI C50700 - Patriot Mods
Army

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P-1 Line #13

Exhibit P-3a, Individ	dual Modification: P	B 2017 Army				Date: February 2016	3								
Appropriation / Buo 2032A / 03 / 10	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nun C50700 / Patriot M			Modification Numb C50700 / PATRIOT									
Modification Item 3 of 1	5: BCP/TCS/CSM		·												
Manufacturer Information	nufacturer Information														
Manufacturer Name: Vari	ous			Manufacturer Location: \	/arious										
Administrative Leadtime (in Months):			Production Leadtime (in	Months):										
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021								
Contract Dates															
Delivery Dates															

Installation Information

Method of Implementation: various

metrica of implementation: various												
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	79 / 1,344.075	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	79 / 1,344.075
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	79 / 1,344.075	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	79 / 1,344.075

Installation Schedule

			FY 2	015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79
Out	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79

LI C50700 - Patriot Mods
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P-1 Line #13

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: C50700 / Patriot Mods	Modification Number / Title: C50700 / PATRIOT MODS
	•	

Modification Item 4 of 15: Combined Crypto Modification Phase I (CCMPI)

Manufacturer Information	n						
Manufacturer Name: Rayt	heon			Manufacturer Location: Ar	ndover, MA		
Administrative Leadtime (in Months): 3			Production Leadtime (in M	lonths): 12		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021

Contract Dates	Dec 2014	Dec 2015			
Delivery Dates	Dec 2015	Dec 2016			

Installation Information

Method of Implementation: Lead Logistics Fielding Team

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M,										
Prior Years	0 / 0.000	17 / 0.100	16 / 0.100	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	33 / 0.200
FY 2015	0 / 0.000	- 1 -	20 / 0.100	19 / 0.397	- 1 -	19 / 0.397	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	39 / 0.497
FY 2016	0 / 0.000	- 1 -	- 1 -	40 / 0.835	- 1 -	40 / 0.835	38 / 0.500	- 1 -	- 1 -	- 1 -	- 1 -	78 / 1.335
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	17 / 0.100	36 / 0.200	59 / 1.232	- 1 -	59 / 1.232	38 / 0.500	- / -	- 1 -	- / -	- / -	150 / 2.032

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	TC	Tot																								
In	-	9	8	8	8	10	10	10	9	20	20	19	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150
Out	-	-	-	9	8	8	8	10	10	10	9	20	20	19	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150

LI C50700 - Patriot Mods
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P-1 Line #13

Exhibit P-3a, Indi	vidual Modification: P	B 2017 Army				Date: February 201	6
Appropriation / B 2032A / 03 / 10	udget Activity / Budge	et Sub Activity:	P-1 Line Item Nu C50700 / Patriot I			Modification Numb	
Modification Item 5 of	f 15: Radar Digital Processor	- Configuration (RDP-C)				
Manufacturer Informa	ition						
Manufacturer Name: Ra	aytheon			Manufacturer Location:	Andover, MA		
Administrative Leadtime	e (in Months): 8			Production Leadtime (in	Months): 20		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	May 2015						
Delivery Dates	Dec 2017						

Installation Information

Method of Implementation: Various

mounda or impromontation randa												
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	62 / 0.000	- /0.000	4 / 0.000	1 / 0.000	- 1 -	1 / 0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	67 / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	71 -	6/ -	- 1 -	- 1 -	- 1 -	13 / -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	62 / 0.000	- 1 -	41 -	1/ -	- 1 -	1/ -	71 -	6/ -	- 1 -	- 1 -	- 1 -	80 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot																				
In	62	-	-	-	-	5	-	-	-	-	-	-	-	4	4	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	80
Out	62	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	4	4	3	2	-	-	-	-	-	-	-	-	-	-	80

LI C50700 - Patriot Mods
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P-1 Line #13

Exhibit P-3a, Indivi	dual Modification: Pl	3 2017 Army				Date: February 2016	6
Appropriation / Bu 2032A / 03 / 10	dget Activity / Budge	t Sub Activity:	P-1 Line Item Nu C50700 / Patriot N			Modification Numb C50700 / PATRIOT	
Modification Item 6 of 1	5: Air Defense Artillery Sch	ool Upgrades/ TADSS					
Manufacturer Informati	on						
Manufacturer Name: Var	ious			Manufacturer Location: \	√arious		
Administrative Leadtime	(in Months): 6			Production Leadtime (in	Months): 18		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Mar 2016					
Delivery Dates		Sen 2017					

Installation Information

Method of Implementation: various

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	1 / 0.000	3 / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	4 / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	1/ -	- 1 -	1/ -	31 -	- 1 -	- 1 -	- 1 -	- 1 -	41 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	1/ -	3/ -	1/ -	- 1 -	1/ -	3/ -	- 1 -	- 1 -	- 1 -	- 1 -	8/ -

Installation Schedule

			FY 2	015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	1	1	1	1	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	-	-	-	-	1	1	1	1	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8

LI C50700 - Patriot Mods
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P-1 Line #13

Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 2016	3
Appropriation / Bu 2032A / 03 / 10	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu C50700 / Patriot N			Modification Numb	
Modification Item 7 of 1	5: Modern Manstation (MM	IS)					
Manufacturer Informati	on						
Manufacturer Name: Ray	rtheon			Manufacturer Location: A	ndover, MA		
Administrative Leadtime	(in Months): 6			Production Leadtime (in	Months): 15		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Various

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	16 / 0.000	18 / 0.000	48 / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	82 / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	16 / 0.000	18 / -	48 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	82 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot																				
In	16	6	6	6	6	14	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82
Out	16	-	6	6	6	6	14	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82

 LI C50700 - Patriot Mods
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 P-1 Line #13

Exhibit P-3a, Indivi	dual Modification: PE	3 2017 Army				Date: February 2016	3
Appropriation / Bud 2032A / 03 / 10	dget Activity / Budge	t Sub Activity:	P-1 Line Item Numb C50700 / Patriot Mod			Modification Numb C50700 / PATRIOT	
Modification Item 8 of 1	5: Enhanced Launcher Elec	tronics System (ELES)					
Manufacturer Information	on						
Manufacturer Name: Vari	ous			Manufacturer Location: Va	arious		
Administrative Leadtime ((in Months): 3			Production Leadtime (in M	fonths): 18		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Dec 2015		Dec 2017	Dec 2018	Dec 2019	Dec 2020

Jun 2019

Jun 2020

Jun 2021

Jun 2022

Jun 2017

Installation Information

Delivery Dates

Method of Implementation: contractor team

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	187 / 0.000	10 / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	197 / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	81 -	- 1 -	8/ -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	8/ -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	25 / -	- 1 -	- 1 -	- 1 -	25 / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	39 / -	- 1 -	- 1 -	39 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	221 -	- 1 -	221 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	15 / -	15 / -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	71 / -	71 / -
Total	187 / 0.000	10 / -	- 1 -	8/ -	- 1 -	8/ -	- 1 -	25/ -	39 / -	221 -	86 / -	377 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	тс	Tot																								
In	187	-	-	10	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	25	-	-	-	20	19	-	-	22	-	86	377
Out	187	-	-	10	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	25	-	-	-	20	19	-	-	22	-	86	377

LI C50700 - Patriot Mods
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P-1 Line #13

Exhibit P-3a, Indi	vidual Modification: P	B 2017 Army				Date: February 2016	3
Appropriation / B 2032A / 03 / 10	udget Activity / Budge	et Sub Activity:	P-1 Line Item Nu C50700 / Patriot N			Modification Numb C50700 / PATRIOT	
Modification Item 9 of	f 15: SNAP/TROPO						
Manufacturer Informa	ition						
Manufacturer Name: To	eleCommunication Systems (TCS)		Manufacturer Location: Ta	ampa, FL		
Administrative Leadtim	e (in Months):			Production Leadtime (in M	Months): 9		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Oct 2014			Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates	Jun 2015			Jun 2018	Jun 2019	Jun 2020	Jun 2021

Installation Information

Method of Implementation: Depot, PM, contractor team

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	14 / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	14 / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	44 / -	- 1 -	- 1 -	- 1 -	- 1 -	44 / -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	25 / -	- 1 -	- 1 -	- 1 -	25 / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	26 / -	- 1 -	- 1 -	26 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	71 -	- 1 -	71 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	14 / -	- / -	- 1 -	- / -	- 1 -	44 / -	25 / -	261 -	71 -	- / -	116 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	14	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-	25	-	-	-	26	-	-	-	7	-	-	-	116
Out	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-	25	-	-	-	26	-	-	-	7	-	-	116

LI C50700 - Patriot Mods
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P-1 Line #13

Exhibit P-3a, Indiv	vidual Modification: PE	3 2017 Army				Date: February 2016	3
Appropriation / B 2032A / 03 / 10	udget Activity / Budge	t Sub Activity:	P-1 Line Item Nur C50700 / Patriot M			Modification Numb	
Modification Item 10 o	f 15: PATRIOT Maintenance	Trainer (PMT)	·			·	
Manufacturer Informa	tion						
Manufacturer Name: Ra	aytheon			Manufacturer Location: Te	ewksbury, MA		
Administrative Leadtime	e (in Months): 4			Production Leadtime (in M	fonths): 4		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Feb 2015		Feb 2017	Feb 2018			Feb 2021
Delivery Dates	Jun 2015		Jun 2017	Jun 2018			Jun 2021

Installation Information

Method of Implementation: PM office, contractor team

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	- / 0.000
FY 2015	0 / 0.000	1/ -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1/ -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	1/ -	- 1 -	1/ -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1/ -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	21 -	- 1 -	- 1 -	- 1 -	- 1 -	21 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1/ -	- 1 -	1/ -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	1/ -	- / -	1/ -	- 1 -	1/ -	21 -	- 1 -	- 1 -	1/ -	- 1 -	5/ -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot																				
In	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	5
Out	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	5

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P-1 Line #13

Exhibit P-3a, Indi	vidual Modification: Pl	B 2017 Army				Date: February 2016	;						
Appropriation / B 2032A / 03 / 10	udget Activity / Budge	et Sub Activity:	P-1 Line Item Num C50700 / Patriot Me			Modification Numb							
Modification Item 11 o	of 15: PATRIOT Multi-Echelor	n Training (PMET)											
Manufacturer Informa	tion												
Manufacturer Name: R	aytheon			Manufacturer Location: To	ewksbury, MA								
Administrative Leadtime	e (in Months): 4			Production Leadtime (in I	Months): 4								
2032A / 03 / 10 C50700 / Patriot Mods C50700 / PATRIOT MODS Modification Item 11 of 15: PATRIOT Multi-Echelon Training (PMET) Manufacturer Information Manufacturer Name: Raytheon Manufacturer Location: Tewksbury, MA Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 4 Dates FY 2015 FY 2016 FY 2017 FY 2018 FY 2019 FY 2020 FY 2021													
Contract Dates	Feb 2015	Feb 2016	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021						
Delivery Dates	May 2015	May 2016	May 2017	May 2018	May 2019	May 2020	May 2021						

Installation Information

Method of Implementation: PM team, contractor team

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- 1 -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000
FY 2015	0 / 0.000	41 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	41 -
FY 2016	0 / 0.000	- 1 -	41 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	41 -
FY 2017	0 / 0.000	- 1 -	- 1 -	41 -	- 1 -	41 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	41 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	41 -	- 1 -	- 1 -	- 1 -	- 1 -	41 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	41 -	- 1 -	- 1 -	- 1 -	41 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	41 -	- 1 -	- 1 -	41 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	41 -	- 1 -	41 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	41 -	41 -	41 -	- 1 -	41 -	41 -	41 -	41 -	41 -	- / -	28 / -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017	-		FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	тс	Tot																								
In	-	-	-	4	-	-	-	4	-	-	-	4	-	-	-	4	-	-	-	4	-	-	-	4	-	-	-	4	-	-	28
Out	-	-	-	4	-	-	-	4	-	-	-	4	-	-	-	4	-	-	-	4	-	-	-	4	-	-	-	4	-	-	28

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 P-1 Line #13

Exhibit P-3a, Indiv	idual Modification: Pl	B 2017 Army				Date: February 2016	6
Appropriation / Bu 2032A / 03 / 10	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nur C50700 / Patriot M			Modification Numb C50700 / PATRIOT	
Modification Item 12 of	f 15: Reconfigurable Table T	op Trainers (RT3)	·			·	
Manufacturer Informat	ion						
Manufacturer Name: Ra	ytheon			Manufacturer Location:	Tewksbury, MA		
Administrative Leadtime	(in Months): 3			Production Leadtime (in	Months): 9		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Dec 2016		Dec 2018		
Delivery Dates			Oct 2017		Oct 2019		

Installation Information

Method of Implementation: PM office and contractor team

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- 1 -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	34 / -	- 1 -	- 1 -	- 1 -	- 1 -	34 / -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	701 -	- 1 -	- 1 -	70 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	34 / -	- 1 -	70 / -	- 1 -	- 1 -	104 / -

Installation Schedule

			FY 2	2015	-		FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot																
In	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	8	8	-	-	-	-	18	18	17	17	-	-	-	-	-	104
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	8	8	-	-	-	-	18	18	17	17	-	-	-	-	-	104

LI C50700 - Patriot Mods
Army

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P-1 Line #13

Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 2016	3
Appropriation / Bu 2032A / 03 / 10	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nui C50700 / Patriot N			Modification Numb	
Modification Item 13 of	15: Assured PNT		·			·	
Manufacturer Information	on						
Manufacturer Name: TBD)			Manufacturer Location: T	BD		
Administrative Leadtime	(in Months):			Production Leadtime (in I	Months):		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: To Complete

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- 1 -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	615 / -	- 1 -	615 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	615 / -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	- 1 -	- 1 -	615 / -	- 1 -	615 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	615 / -

Installation Schedule

				FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	2021			
		PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot																
lr	ı	-	-	-	-	-	-	-	-	-	-	615	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	615
C	Out	-	-	-	-	-	-	-	-	-	-	615	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	615

 LI C50700 - Patriot Mods
 UNCLASSIFIED

 Army
 Page 23 of 25
 P-1 Line #13

Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 2016	6
Appropriation / Bu 2032A / 03 / 10	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu C50700 / Patriot N			Modification Number C50700 / PATRIOT I	
Modification Item 14 of	15: Test Detachment		·			·	
Manufacturer Informati	on						
Manufacturer Name: TBD)			Manufacturer Location: TI	BD		
Administrative Leadtime	(in Months):			Production Leadtime (in N	Months):		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: To Complete

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- 1 -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	1/ -	- 1 -	1/ -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1/ -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	- 1 -	- 1 -	1/ -	- 1 -	1/ -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	1/ -

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot																				
In	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

 LI C50700 - Patriot Mods
 UNCLASSIFIED

 Army
 Page 24 of 25
 P-1 Line #13

Exhibit P-3a, Indiv	idual Modification: Pl	3 2017 Army				Date: February 2016	3
Appropriation / Bu 2032A / 03 / 10	dget Activity / Budge	t Sub Activity:	P-1 Line Item Nun C50700 / Patriot M			Modification Numb C50700 / PATRIOT	
Modification Item 15 of	15: Digital Sidelobe Cancel	ler (DSLC)	·				
Manufacturer Informat	on						
Manufacturer Name: TB	D			Manufacturer Location: The	BD		
Administrative Leadtime	(in Months): 3			Production Leadtime (in N	Months): 22		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates			Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022

Installation Information

Method of Implementation: Various

										,		,
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- /0.000	- /0.000	- /0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	5/ -	- 1 -	- 1 -	- 1 -	5/ -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	38 / -	- 1 -	- 1 -	38 / -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	281 -	- 1 -	28 / -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	10 / -	10 / -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	5/ -	38 / -	28 / -	10 / -	81 / -

Installation Schedule

			FY 2	015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	38	-	-	-	28	-	-	-	10	81
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	38	-	-	-	28	10	81

 LI C50700 - Patriot Mods
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 Army
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 P-1 Line #13

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

CA6700 / ATACMS MODS

Modifications

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

Program Elements for Code B Items: N/A Other Related Program Elements: 0203802A

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

	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	20.119	150.043	-	150.043	62.668	16.217	-	-	-	249.047
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	20.119	150.043	-	150.043	62.668	16.217	-	-	-	249.047
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	20.119	150.043	-	150.043	62.668	16.217	-	-	-	249.047
(The following	Resource Sum	mary rows are fo	r informational p	ourposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)		*		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	819.907	-	819.907	-	-	-	-	-	24,904.700

Description:

Army Tactical Missile System (ATACMS) is the United States (U.S.) Army's primary 24/7, all weather, and surface-to-surface artillery precision missile used by current and future Combatant Commanders to shape the battle field with long-range fires against hard and soft stationary targets in open, complex, and urban environments.

This is the follow-on procurement to the integration and testing program that was funded under Program Element (PE) 0203802A; it will not build any new missiles or add to the overall inventory.

Block (Blk) 1 missiles currently have warheads (WHs) that are non-compliant with the 2008 Department of Defense (DoD) policy on cluster munitions (CM). The modification will be performed as a Service Life Extension Program (SLEP) and will take expired assets and reset them to a 10 year service life. Under this modification effort, a policy compliant WH will replace the existing M74 bomblets and also updates electronics and propellants. The Stockpile Reliability Program (SRP) will supply additional data to support extending the service life. This effort effectively brings the expired inventory back into service, while meeting the DoD CM Policy, to engage imprecisely located/area targets up to 300 kilometers (km).

ATACMS modifications will be performed by Lockheed Martin in Camden, Arkansas.

Secondar	ry Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	20.119	150.043	-	150.043	62.668	16.217	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	20.119	150.043	-	150.043	62.668	16.217	-	-

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P-1 Line #14

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

CA6700 / ATACMS MODS

Modifications

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203802A

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

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)				
P-3a	CA6700 / Army Tactical Missile System (ATACMS) Modifications (Unclassified)			- / -	- / -	- /20.119	- / 150.043	- / -	- /150.043
P-40	Total Gross/Weapon System Cost			- 1 -	- 1 -	- / 20.119	- / 150.043	- 1 -	- / 150.043
	Exhibits Schedule	'		FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Exhibits Schedule Title*	Subexhibits	ID CD	FY 2018 Quantity / Total Cost (Each) / (\$ M)	FY 2019 Quantity / Total Cost (Each) / (\$ M)	FY 2020 Quantity / Total Cost (Each) / (\$ M)	FY 2021 Quantity / Total Cost (Each) / (\$ M)	To Complete Quantity / Total Cost (Each) / (\$ M)	Total Quantity / Total Cost (Each) / (\$ M)
		Subexhibits		Quantity / Total Cost	Quantity / Total Cost				
Туре	Title* CA6700 / Army Tactical Missile System (ATACMS) Modifications	Subexhibits		Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)			

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

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

Justification:

FY17 procurement dollars in the amount of \$150.043 million supports the modification of 183 expired ATACMS and resets their 10 year service life.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 03 / 10

P-1 Line Item Number / Title:
CA6700 / ATACMS MODS

Modification Number / Title:
CA6700 / ATACMS MODS

CA6700 / Army Tactical Missile System (ATACMS) Modifications

	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	20.119	150.043	-	150.043	62.668	16.217	-	-	-	249.047
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	20.119	150.043	-	150.043	62.668	16.217	-	-	-	249.047
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	20.119	150.043	-	150.043	62.668	16.217	-	-	-	249.047
(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	819.907	-	819.907	-	-	-	-	-	24,904.700

Description:

The ATACMS weapon system modernization program implements modifications to the weapon system. Required modifications are identified through various means, including Operational Requirements Document; OSD/Joint Staff/HQDA munitions studies; material deficiencies identified in the field; obsolescence issues; emerging technologies; and software improvements.

Installation costs in FY 2017 includes mod components, installation and checkout in accordance with contract.

Seconda	ry Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	20.119	150.043	-	150.043	62.668	16.217	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	20.119	150.043	-	150.043	62.668	16.217	-	-

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Exhibit P-3a, Individual Modification: P	B 2017 Arm	ıy							Date: Feb	ruary 2016		
Appropriation / Budget Activity / Budget 2032A / 03 / 10	et Sub Acti	vity:	P-1 Line I CA6700 /	tem Numb ATACMS N					CA6700 /	ion Numbe Army Tacti) Modificat	cal Missile	System
Models of Systems Affected: ATACMS		Modifi	ication Typ	e: Unclass	sified		Re	lated RDT	&E PEs:			
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)									
Procurement												
Modification Item 1 of 1: CM Compliant Warhead												
A Kits												
Recurring												
Kit Quantity	- 1 -	- 1 -	- 1 -	183 / 119.471	- 1 -	183 / 119.471	58 / 57.603	- /16.217	- 1 -	- 1 -	- 1 -	241 / 193.291

ı												
Kit Quantity	- 1 -	- 1 -	- 1 -	183 / 119.471	- 1 -	183 / 119.471	58 / 57.603	- /16.217	- 1 -	- 1 -	- 1 -	241 / 193.291
Subtotal: Recurring	- / -	- / -	- / -	- /119.471	- / -	- /119.471	- /57.603	- /16.217	- / -	- / -	- / -	- /193.291
Non-Recurring												
Startup/Tooling	- 1 -	- 1 -	- /20.119	- / 14.903	- 1 -	- / 14.903	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- / 35.022
Subtotal: Non-Recurring	- / -	- / -	- /20.119	- /14.903	- / -	- /14.903	- / -	- / -	- / -	- / -	- / -	- /35.022
Subtotal: CM Compliant Warhead	- / -	- / -	- /20.119	183 / 134.374	- / -	183 / 134.374	58 / 57.603	- /16.217	- / -	- / -	- / -	241 / 228.313
Subtotal: Procurement, All Modification Items	- / -	- / -	- /20.119	183 / 134.374	- / -	183 / 134.374	58 / 57.603	- /16.217	- / -	- / -	- / -	241 / 228.313
Installation				<u> </u>				<u> </u>				
Modification Item 1 of 1: CM Compliant Warhead	- 1 -	- 1 -	- 1 -	183 / 15.669	- 1 -	183 / 15.669	58 / 5.065	- / -	- 1 -	- 1 -	- 1 -	241 / 20.734
Subtotal: Installation	- / -	- / -	- / -	183 / 15.669	- / -	183 / 15.669	58 / 5.065	- / -	- / -	- / -	- / -	241 / 20.734
Total												

150.043

150.043

62.668

16.217

20.119

Total Cost (Procurement + Support + Installation)

249.047

Exhibit P-3a, Indi	vidual Modification: PE	3 2017 Army				Date: February 2016	5
Appropriation / B 2032A / 03 / 10	udget Activity / Budge	t Sub Activity:	P-1 Line Item Nui CA6700 / ATACM			Modification Numb CA6700 / Army Tact (ATACMS) Modificat	ical Missile System
Modification Item 1 of	f 1: CM Compliant Warhead						
Manufacturer Informa	ation						
Manufacturer Name: Lo	ockheed Martin			Manufacturer Location: 0	Camden, AR		
Administrative Leadtime	e (in Months): 3			Production Leadtime (in	Months): 15		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Mar 2017	Mar 2018			
Delivery Dates			Sep 2018	Sep 2019			

Installation Information

Method of Implementation: TBD

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	осо	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	- 1 -	- 1 -	- / 0.000	- / 0.000	- 1 -	- /0.000	- / 0.000	- / 0.000	- 1 -	- 1 -	- / 0.000	- / 0.000
FY 2015	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	- 1 -	- 1 -	- 1 -	183 / 15.669	- 1 -	183 / 15.669	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	183 / 15.669
FY 2018	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	58 / 5.065	- 1 -	- 1 -	- 1 -	- 1 -	58 / 5.065
FY 2019	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	183 / 15.669	- 1 -	183 / 15.669	58 / 5.065	- 1 -	- 1 -	- 1 -	- 1 -	241 / 20.734

Installation Schedule

				FY 2	2015			FY 2	2016			FY 2	2017			FY 2	018			FY 2	2019			FY 2	2020			FY 2	.021			
		PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
I	n	-	-	-	-	-	-	-	-	-	-	183	-	-	-	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	241
(Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	46	46	46	15	15	14	14	-	-	-	-	-	-	241

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

C57701 / GMLRS MOD

Modifications

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

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

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

LINE ILEM MIDAP/MAIS COUE. N/A	Item ND	AP/IVIAIS COL	ie(s). IV/A									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
		1 1 2010										
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	138	612	-	750
Gross/Weapon System Cost (\$ in Millions)	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget requests	are documente	ed elsewhere.)			·	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	185.000	108.631	-	148.571

Description:

This effort converts Guided Multiple Launch Rocket system (GMLRS) Unitary rockets to GMLRS Alternative Warhead (AW) rockets. It capitalizes on the 90% commonality between GMLRS Unitary and AW variants. In addition to exchanging the warhead, the conversion process will include replacement of obsolete guidance sets and other critical components in order to reset rocket service life to 10 years.

GMLRS rockets are surface-to-surface artillery rockets fired from the Multiple Launch Rocket System (MLRS) and High Mobility Artillery Rocket System (HIMARS) launchers. GMLRS rockets provide 24/7, all-weather precision fires to engage both area and point targets at short, medium, and long ranges.

The GMLRS Program consists of three separate increments. GMLRS Purpose Improved Conventional Munition (DPICM) was the first increment. It is a cluster munition that replaced the shorter range MLRS rockets to engage area or imprecisely located targets. GLMRS DPICM Production was terminated in response to the June 2008 Department of Defense (DoD) Cluster Munitions Policy. GMLRS Unitary is the second increment that utilizes a 200 lb high explosive warhead to engage point targets with limited collateral damage. The GMLRS AW rocket is 90% common with the Unitary variant. GMLRS AW is a non-cluster munition developed to replace GMLRS DPICM. The GMLRS AW program entered full rate production in FY15.

The U.S. Army manages all three increments as part of the GMLRS Program. This modification program along with all GMLRS rockets are produced on a common production line by Lockheed Martin in Camden. Arkansas.

Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	138	612
	Total Obligation Authority	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482
Total:	Quantity	-	-	-	-	-	-	-	138	612
Secondary Distribution	Total Obligation Authority	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482

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LI C57701 - GMLRS MOD Army

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

C57701 / GMLRS MOD

Modifications

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)				
P-3a	C57701 / Guided Multiple Launch Rocket System (GMLRS) Unitary Modification (Unclassified)			- / -	- / -	- /18.221	- / 0.395	- / -	- / 0.395
P-40	Total Gross/Weapon System Cost			- 1 -	- 1 -	- / 18.221	- / 0.395	- 1 -	- / 0.395
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit		Т	ID	O	0 11 17 110 1	Quantity / Total Cost			
Type	Title*	Subexhibits	CD	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	(Each) I (\$ M)	(Each) I (\$ M)	(Each) I (\$ M)	(Each) I (\$ M)
	Title* C57701 / Guided Multiple Launch Rocket System (GMLRS) Unitary Modification (Unclassified)	Subexhibits							

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

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

Justification:

FY 2017 Base procurement dollars in the amount of \$0.395 million supports the continuation of the conversion test effort.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for the use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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P-1 Line #15

Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 03 / 10

Date: February 2016

Modification Number / Title:

C57701 / GMLRS MOD

C57701 / Guided Multiple Launch Rocket

System (GMLRS) Unitary Modification

	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	138	612	-	750
Gross/Weapon System Cost (\$ in Millions)	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428
(The following	Resource Sum	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	185.000	108.631	-	148.571

Description:

Guided Multiple Launch Rocket System (GMLRS) Weapon System Modernization Program implements modifications to the weapon system. Required modifications are identified through various means, including CPD, TAMR, Operational Needs Statement, material deficiencies identified in the field, obsolescence issues, emerging technologies, Crew recommendations, and software upgrades/improvements.

Seconda	rv Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity								138	612
Ailly	Quantity	-	-	-	-	-	-		130	012
	Total Obligation Authority	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482
Total:	Quantity		-	-	-	-	-		138	612
Secondary Distribution	Total Obligation Authority	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482

LI C57701 - GMLRS MOD
Army

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P-1 Line #15

Exhibit P-3a, Individual Modification:	PB 2017 Arm	ıy							Date: Feb	ruary 2016			
Appropriation / Budget Activity / Budg 2032A / 03 / 10	get Sub Acti	vity:	P-1 Line Item Number / Title: C57701 / GMLRS MOD dification Type: Unclassified Related RD							Modification Number / Title: C57701 / Guided Multiple Launch Roc System (GMLRS) Unitary Modification			
Models of Systems Affected: TBD		Modifi	ication Typ	oe: Unclass	sified		Re	lated RDT	&E PEs:				
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M	
Procurement													
Modification Item 1 of 1: GMLRS UNITARY/AW Conversion													
A Kits													
Recurring													
Kit Quantity	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	138 / 22.252	612 / 57.988	- 1 -	750 / 80.24	
Government Test	- 1 -	- 1 -	- 1 -	- / 0.395	- 1 -	- / 0.395	- / 0.531	- / 0.269	- 13.278	- / 6.935	- 1 -	- / 11.40	
Facilitization	- 1 -	- 1 -	- / 18.221	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 18.22	
Subtotal: Recurring	- / -	- / -	- /18.221	- /0.395	- / -	- /0.395	- /0.531	- /0.269	- /25.530	- /64.923	- / -	- /109.86	
Subtotal: GMLRS UNITARY/AW Conversion	- / -	- / -	- /18.221	- /0.395	- / -	- /0.395	- /0.531	- /0.269	138 / 25.530	612 / 64.923	- / -	750 / 109.86	
Subtotal: Procurement, All Modification Items	- / -	- / -	- /18.221	- /0.395	- / -	- /0.395	- /0.531	- /0.269	138 / 25.530	612 / 64.923	- / -	750 / 109.86	
Installation													
Modification Item 1 of 1: GMLRS UNITARY/AW Conversion	- 1 -	- 1 -	- / -	- / -	- 1 -	- / -	- 1 -	- 1 -	- / -	138 / 1.559	- 1 -	138 / 1.55	
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 1.559	- / -	138 / 1.55	
Total													
Total Cost (Procurement + Support + Installation)	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428	

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Exhib	oit P-	∙3a, II	ndivi	dual	Modit	icatio	on: Pl	3 201	I / Arn	าy														Date	: Fe	bruary	/ 201	b			
Appr 2032				dget /	Activi	ty / B	udge	t Sul	b Acti	vity	:	1 -	Line 1 701 /				Title:							C57	701 <i>I</i>	tion N Guide GMLR	ed M	ultiple	Laun		
Modifi	catior	Item	1 of 1	: GMLF	RS UNI	TARY/	AW Co	nvers	ion																						
Manuf	acture	er Info	rmatio	on																											
Manufa	acture	r Nam	e: Locl	kheed	Martin											Manu	ıfactur	er Locat	ion: C	amden	AR										
Admini	strativ	e Lead	dtime (in Mor	ths): 3											Produ	uction	Leadtim	e (in I	Months)	: 17										
	Da					2015			FY	2016			FY	2017				2018	- (1		2019			FY	2020			FY	2021	
Contra		et Dates																				2019				2020					
	very Dates																						r 2020				2021				
Benver	y Duk																								iviai	1 2020				2021	
Install	ation	Inform	nation																												
Metho	d of Ir	nplem	entati	on: TE	BD																										
		•											FY 2	017	FY	2017	F	[′] 2017										To			
						Pr	ior Yea	ars	FY 20	15	FY 20	16	Ва	se	0	СО	7	Γotal	F'	Y 2018	F	FY 2019		FY 202	20	FY 20)21	Comp	olete	To	tal
	I	nstalla	ation (Cost			ty <i>(Each)</i> al Cost <i>(</i> \$		Qty (Eac		Qty (Ea		Qty (E Total Co			Each) I Sost (\$ M)		(Each) I Cost (\$ M)		y <i>(Each) I</i> il Cost <i>(\$ I</i>		ty <i>(Each)</i> al Cost <i>(</i> \$		Qty <i>(Each</i> tal Cost <i>(</i>		Qty (Ead Total Cost		Qty (Ea		Qty (E	
Prior Yea	ırs						- 1	-	-	1 -	-	0.000	-	/ 0.000		- 1 -		- /0.000)	- /0.0	00	- /0.0	000	- /0	0.000	- 1	1 0.000	-	10.000		/ 0.000
FY 2015							- 1	-	-	1 -	-	1 -		- 1 -		- 1 -		- / -		- 1	-	- 1	-	- 1	1 -	-	1 -		- 1 -		- 1 -
FY 2016							- 1	-	-	1 -	-	1 -		- 1 -		- 1 -		- 1 -		- 1	-	- 1	-	- 1	1 -	-	1 -		- 1 -		- 1 -
FY 2017							- 1	-	-	1 -	-	1 -		- 1 -		- 1 -		- 1 -		- 1	-	- 1	-	- 1	1 -	-	1 -	-	- 1 -		- 1 -
FY 2018							- 1			1 -		1 -		- 1 -		- 1 -		- 1 -		- 1	_	- 1		- 1			1 -		- 1 -		- 1 -
FY 2019							- 1			1 -		1 -		- 1 -		- 1 -		- 1 -		- 1		- 1		- 1			1 -		- 1 -		- 1 -
FY 2020							- 1			1 -		1 -		- / -		- 1 -		- / -		- 1	_	- 1		- 1			<i>I</i> 1.559		- 1 -		8 / 1.559
FY 2021							- 1	_		1 -		1 -		- / -		- 1 -		- / -		- 1	_	- 1		- 1	_		1 -		- 1 -		- 1 -
To Comp	lete						- 1			1 -		1 -		- 1 -		- 1 -	-	- / -		- 1		- 1		- 1			1 -		- 1 -		- / -
Total							- 1	-	-	1 -	-	1 -	-	- / -		- / -		- 1 -		- 1		- 1	-	- 1	<i>I</i> -	138 /	<i>I</i> 1.559		- / -	138	8 / 1.559
Install	ation	Sched																													
				2015	,			2016	1			2017	_		_	2018	,	ļ.,		2019	1	ļ.,		2020	1		_	2021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	138	-	-	-	612	2 -	-	-	750
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	69	612	750

LI C57701 - GMLRS MOD
Army

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Page 5 of 5
P-1 Line #15

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

C20000 / Stinger Mods

Modifications

ID Code (A=Service Ready, B=Not Service Ready): Program Elements for Code B Items: N/A Other Related Program Elements: 0203801A

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

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	le(s): N/A									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	850	-	-	-	-	-	-	-	-	-	-	850
Gross/Weapon System Cost (\$ in Millions)	238.894	1.355	2.216	-	-	-	-	-	-	-	-	242.465
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	238.894	1.355	2.216	-	-	-	-	-	-	-	-	242.465
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	238.894	1.355	2.216	-	-	-	-	-	-	-	-	242.465
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	1			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	281.052	-	-	-	-	-	-	-	-	-	-	285.253

Description:

The Stinger Block I missile is an advanced, fire-and-forget, short-range, man-portable, air defense weapon system. Stinger's mission is to provide the force with low-altitude air defense against fixed and rotary wing aircraft, unmanned aircraft systems (UAS) and cruise missiles (CM). Stinger employs an infrared (heat seeking)/ultraviolet seeker to guide to the target. Stinger Block I has extensive infrared counter-countermeasure capabilities and can engage targets from any aspect to include head-on. The missile utilizes a high-explosive, hit-to-kill warhead. Stinger can be fired from the shoulder or from a variety of platforms to include vehicles, helicopters and UAS. The missile is delivered as a certified round and requires no field testing or maintenance.

The decision was made to separate the Proximity Fuze development from the Service Life Extension Program (SLEP) and to go forward only with the SLEP program following Proximity Fuze Flight Test Failures. This effort funds the procurement of rocket motors, standard warheads, and various Line Replaceable Units (LRUs) associated with the SLEP process.

The U.S. Army Stinger inventory is currently projected to fall below the FY15-19 Total Army Munitions Requirement (TAMR), dated 2 June 2014, of 3,268 missiles by the end of FY 2018. The Service Life Extension Program (SLEP) will provide Stinger Block I missiles with a 10-year shelf life by replacing items susceptible to degradation due to aging.

Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.355	2.216	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	1.355	2.216	-	-	-	-	-	-	-

LI C20000 - Stinger Mods
Army

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P-1 Line #16

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

C20000 / Stinger Mods

Modifications

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203801A

Line Item MDAP/MAIS Code: N/A Item MD

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

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)				
P-3a	C21300 / Stinger Service Life Extension Program (SLEP) (TBD)			850 / 238.892	- / 1.355	- / 2.216	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			850 / 238.894	- / 1.355	- / 2.216	- 1 -	- 1 -	- 1 -
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	C21300 / Stinger Service Life Extension Program (SLEP) (TBD)			- / -	- / -	- / -	- / -	- / -	850 / 242.463
P-40	Total Gross/Weapon System Cost		- / -	- / -	- / -	- / -	- / -	850 / 242.465	

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

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

Justification:

There is no funding in FY2017.

In accordance with Section 1815 of the FY08 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

LI C20000 - Stinger Mods
Army

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Page 2 of 5
P-1 Line #16

Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10		Modification Number / Title: C21300 / Stinger Service Life Extension Program (SLEP)

									o g. a	. (0)		
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	850	-	-	-	-	-	-	-	-	-	-	850
Gross/Weapon System Cost (\$ in Millions)	238.892	1.355	2.216	-	-	-	-	-	-	-	-	242.463
Less PY Advance Procurement (\$ in Millions)	=	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	238.892	1.355	2.216	-	-	-	-	-	-	-	-	242.463
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	238.892	1.355	2.216	-	-	-	-	-	-	-	-	242.463
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Tl	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	281.049	-	-	-	-	-	-	-	-	-	-	285.251

Description:

The Stinger Block I missile is an advanced, fire-and-forget, short-range, man-portable, air defense weapon system. Stinger's mission is to provide the force with low-altitude air defense against fixed and rotary wing aircraft, unmanned aircraft systems (UAS) and cruise missiles (CM). Stinger employs an infrared (heat seeking)/ultraviolet seeker to guide to the target. Stinger Block I has extensive infrared counter-countermeasure capabilities and can engage targets from any aspect to include head-on. The missile utilizes a high-explosive, hit-to-kill warhead. Stinger can be fired from the shoulder or from a variety of platforms to include vehicles and helicopters. The missile is delivered as a certified round and requires no field testing or maintenance.

The decision was made to separate the Proximity Fuze development from the Service Life Extension Program (SLEP) and to go forward only with the SLEP program following Proximity Fuze Flight Test Failures. This effort funds the procurement of rocket motors, standard warheads, and various Line Replaceable Units (LRUs) associated with the SLEP process.

The U.S. Army Stinger inventory is currently projected to fall below the FY15-19 Total Army Munitions Requirement (TAMR), dated 2 June 2014, of 3,268 missiles by the end of 2018. The Service Life Extension Program (SLEP) will provide Stinger Block I missiles with a 10-year shelf life by replacing items susceptible to degradation due to aging.

LI C20000 - Stinger Mods
Army

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P-1 Line #16

Exhibit P-3a, Individual Modification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A / 03 / 10

P-1 Line Item Number / Title:
C20000 / Stinger Mods

C21300 / Stinger Service Life Extension Program (SLEP)

Models of Systems Affected: FIM-92E Stinger Block I Modification Type: TBD Related RDT&E PEs:

Missile

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	OCO	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Procurement												
Modification Item 1 of 1: Stinger Service Life Extension Program (SLEP)												
A Kits												
Recurring												
Hardware	850 / 231.982	- 1 -	- / -	- / -	- / -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- / -	850 / 231.982
Engineering Services	0 / 0.762	- / 0.252	- / 0.489	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 1.500
Govt PM/Admin Support	0 / 1.651	- / 0.390	- / 0.381	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 12.422
Other Flyaway Support	0 / 4.497	- / 0.399	- /1.023	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 5.919
Subtotal: Recurring	- /238.892	- /1.041	- /1.893	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /241.826
Subtotal: Stinger Service Life Extension Program (SLEP)	850 / 238.892	- /1.041	- /1.893	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	850 / 241.82
Subtotal: Procurement, All Modification Items	850 / 238.892	- /1.041	- /1.893	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	850 / 241.82
Installation												
Modification Item 1 of 1: Stinger Service Life Extension Program (SLEP)	0 / 0.000	425 / 0.314	425 / 0.323	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	850 / 0.637
Subtotal: Installation	0 /0.000	425 / 0.314	425 / 0.323	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	850 / 0.63
Total												
Total Cost (Procurement + Support + Installation)	238.892	1.355	2.216	_	-	-	_	-	-	-	-	242.463

LI C20000 - Stinger Mods
Army

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P-1 Line #16

Exhibit P-3a, Indiv	ridual Modification: P	B 2017 Army				Date: February 201	6		
Appropriation / Bu 2032A / 03 / 10	udget Activity / Budge	et Sub Activity:	P-1 Line Item Nu C20000 / Stinger			Modification Number / Title: C21300 / Stinger Service Life Extension Program (SLEP)			
Modification Item 1 of	1: Stinger Service Life Exter	nsion Program (SLEP)							
Manufacturer Informat	ion								
Manufacturer Name: Mo	Alester Army Ammunition P	lant		Manufacturer Location: N	McAlester, OK				
Administrative Leadtime	(in Months): 3			Production Leadtime (in	Months): 21				
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021		
Contract Dates	Jan 2014								
Delivery Dates	Jun 2015								

Installation Information

Method of Implementation: Depot Upgrade

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- /0.000	- / 0.000	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- / -	- 1 -	- /0.000	- / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	425 / 0.314	425 / 0.323	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- / -	- 1 -	- / -	850 / 0.637
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	425 / 0.314	425 / 0.323	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	850 / 0.637

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2017 FY 2018 FY 2019							FY 2	2020			FY 2	021								
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	850
Out	-	-	-	-	425	425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	850

LI C20000 - Stinger Mods
Army

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P-1 Line #16

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

CE8710 / AVENGER MODS

Modifications

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

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

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

Line item MDAP/MAIS Code. N/A	Itelli MD	AP/IVIAIS COU	ie(s). IV/A									
	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	e corresponding	n budget request	s are documente	d elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	256.534	-	256.534	-	-	-	-	Continuing	Continuing

Description:

The Avenger Air Defense System is a lightweight, highly mobile surface-to-air missile and gun weapon system mounted on a High Mobility Multi-purpose Wheeled Vehicle (HMMWV). The system employs a canopied turret consisting of a gunner position, two gyro-stabilized missile launcher pods containing four Stinger missiles each, a Forward Looking Infrared Receiver (FLIR), a Laser Range Finder (LRF), an Identification Friend or Foe (IFF) system and a very high rate of fire .50 caliber machine gun. The gun system is used against ground targets and to cover the Stinger missile dead-zone. Avenger is capable of day/night and adverse weather conditions; can be transported by UH-60L Blackhawk helicopter or C-130 aircraft; is air-droppable and can shoot on the move. The system can also be operated by remote control from a protected position up to 50 meters away from the fire unit.

The Avenger system is operated by a two-man crew and is used to counter Unmanned Aerial Systems (UASs), cruise missiles, and fixed wing/rotary wing aircraft. Avenger fills the line-of-sight rear component of the Forward Area Air Defense (FAAD) system.

Funds procurement portion of Avenger Modification program to maintain system relevance in a configuration that is sustainable against multiple threats beyond FY2018. Avenger fills a capability gap which will be permanently filled by Indirect Fire Protection Capability Increment 2 Intercept (IFPC Inc 2-I) which fully fields by FY31.

The Targeting Console (TC) is a required subsystem that provides the gunner with information and controls necessary to carry out the short range Air Defense Mission. The current Targeting Console is not supportable beyond FY18. This program will fund a fleet-wide replacement and upgrade of the TC that will be able to handle the increased targeting capability realized with the latest version of the FAAD early warning network.

The M3P.50 CAL machine gun is required to provide the Avenger crew with self-protection inside of the missile dead zone coverage. The M3Ps currently fielded to Air Defense Artillery (ADA) units are not supportable through FY31. This program will allow for the procurement of new M3Ps to ensure that Avenger units maintain their self-protection capability until a replacement system is fielded.

The Vehicle Internal Communications System (VIC) is a required subsystem that allows communication between the gunner and driver. It also interfaces with the Identification Friend or Foe (IFF) and missile electronics resulting in improved IFF capabilities. The updated VIC replaces the Voice Intercom System I (AN/VIC-I) that is currently fielded with the Avenger. The AN/VIC-I is not supportable beyond FY2018. The VIC update will upgrade the system from analog to digital and ensure that Avenger meets its intercommunication requirements until a replacement system for Avenger can be fielded.

The Avenger Fire Control Computer (AFCC) is a required subsystem of the Avenger Slew-to-Cue system that processes and displays air tracks data to the gunner. The current AFCC is not supportable through

The Avenger Fire Control Computer (AFCC) is a required subsystem of the Avenger Slew-to-Cue system that processes and displays air tracks data to the gunner. The current AFCC is not supportable through FY31. The AFCC-Revised (AFCC-R) will replace the current AFCC. The Avenger Fire Control Computer-Revised (AFCC-R) will undergo software and hardware upgrades that will enable the system to handle increased targeting capability realized with the latest version of the Forward Area Air Defense (FAAD) early warning system, ensure the system meets the latest Information Assurance (IA) requirements, and allow for future growth in areas such as improved fire control/longer range engagements.

Mode 5/Identification Friend or Foe (IFF) replaced the current Avenger IFF system. The Mode 5 is required to phase out Mode 4 capability. Mode 4 will no longer be supportable beyond December 2020. Incorporation of Mode 5 into Avenger is critical to retaining the cooperative target identification capability, allowing Avenger to remain relevant and effective in Air Defense and Homeland Defense missions.

LI CE8710 - AVENGER MODS

Army

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P-1 Line #17

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

CE8710 / AVENGER MODS

Modifications

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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

The Environmental Control Unit/Prime Power Unit (ECU/PPU) is a required subsystem that provides turret air conditioning/heating and provides a separate backup power source in lieu of vehicle battery power. The ECU/PPU removes restrictions on operational use of Avenger in hot climates. This modification fulfills the user requirement for a separate, reliable power source and for heat and air conditioning to fully operate in a broad spectrum of combat environments (i.e., desert).

Seconda	ary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.611	6.171	32.407	-	32.407	19.016	7.266	1.397	1.324
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.199	-	1.199	44.107	24.168	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

CE8710 / AVENGER MODS

Modifications

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	CE8710 / Avenger Modification (Operational)			- / -	- /5.611	- / 6.171	- / 33.606	- / -	- / 33.606
P-40	Total Gross/Weapon System Cost			- 1 -	- / 5.611	- / 6.171	- / 33.606	- 1 -	- / 33.606
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	CE8710 / Avenger Modification (Operational)			- / 63.123	- / 31.434	- / 1.397	- / 1.324	Continuing	Continuing
	Total Gross/Weapon System Cost		- / 63.123	- / 31.434	- / 1.397	- / 1.324	Continuing	Continuing	

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

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

Justification:

FY 2017 procurement dollars in the amount of \$33.606 million support the acquisition of 131 Mode5/IFF units.

The P-40 Secondary Distribution table shows funding for Line Replaceable Units (LRU) kits procured for Active and National Guard units and are not representative of procuring full-up Avenger systems. In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
2032A / 03 / 10	CE8710 / AVENGER MODS	CE8710 / Avenger Modification

2032A / 03 / 10			CE	3/10/AVE	NGER MOL)5			CE8710 / Avenger Modification To			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021		Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)				1
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	256.534	-	256.534	-	-	-	-	Continuing	Continuing

Description:

These funds are provided to procure updated Avenger Line Replaceable Units (LRUs) to ensure that Avenger is viable and sustainable until Avenger leaves the force in the Fiscal Year (FY) 2031 timeframe. Avenger fills a capability gap which will be permanently filled by Indirect Fire Protection Capability Increment 2 Intercept (IFPC2-I). The Avenger Fire Control Computer (AFCC) will undergo software and hardware upgrades that will enable the system to handle increased targeting capability realized with the latest version of the Forward Area Air Defense (FAAD) early warning system and ensure the system meets the latest Information Assurance (IA) requirements. The Vehicle Internal Communications (VIC) system will be upgraded from digital to analog. Mode 5 cooperative target identification functions will be added to improve the system IFF capabilities. New targeting consoles will be placed on all Avengers. Newly redesigned Environmental Control Unit/Prime Power Units (ECU/PPU) will be procured for all Active Army Avengers. A mix of missiles may be required to launch on this platform until systems are completely retired from the Operational Army.

Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.611	6.171	32.407	-	32.407	19.016	7.266	1.397	1.324
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	=	1.199	-	1.199	44.107	24.168	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	condary Distribution Total Obligation Authority		6.171	33.606	=	33.606	63.123	31.434	1.397	1.324

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LI CE8710 - AVENGER MODS Army

Exhibit P-3a, Individual Modification: PB 2017 Army **Date:** February 2016 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: **Modification Number / Title:** 2032A / 03 / 10 CE8710 / AVENGER MODS CE8710 / Avenger Modification Models of Systems Affected: Avenger Basic and Modification Type: Operational Related RDT&E PEs: Slew-to-Cue Systems FY 2017 FY 2017 FY 2017 To **Prior Years** FY 2015 FY 2016 Base oco Total FY 2018 FY 2019 FY 2020 FY 2021 Complete Total Qtv (Each) I Qty (Each) I **Financial Plan** Total Cost (\$ M) Total Cost (\$ M) | Total Cost (\$ M) | Total Cost (\$ M) | Total Cost (\$ M) Procurement Modification Item 1 of 6: M3P Machine Gun A Kits Recurring - 1 -- 1 -- 1 -Kit Quantity - 1 -- 1 -126 / 5.531 - 1 -- 1 -- 1 -- / -- 1 -126 / 5.531 **Engineering Services** - 1 -- 1 -- / 0.062 - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- / 0.062 - / 0.102 Gov't SEPM - 1 -- 1 -- 1 -- 1 -- / -- 1 -- 1 -- 1 -- 1 -- / -- / 0.102 - 1 -- 1 -- / 0.236 - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- / 0.236 Interim Contractor Support - 1 -- 1 -- 1 -- / 0.187 - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -Spares/Repairs - / 0.187

Subtotal: M3P Machine Gun	
Modification Item 2 of 6: Voice Intercommunication System	

Subtotal: Recurring

A Kits												
Recurring												
Kit Quantity	- 1 -	- / -	- 1 -	- / -	- 1 -	- 1 -	393 / 7.050	- 1 -	- 1 -	- / -	- / -	393 / 7.050
Engineering Services	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /2.006	- / 0.166	- 1 -	- 1 -	- 1 -	- /2.172
New Equipment Training	- 1 -	- 1 -	- / -	- 1 -	- / -	- 1 -	- / 0.905	- /0.787	- 1 -	- 1 -	- 1 -	- /1.692
Interim Contractor Support	- 1 -	- / -	- / -	- / -	- / -	- 1 -	- / 0.239	- / 0.298	- 1 -	- / -	- / -	- / 0.537
Spares/Repair Parts	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.196	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.196
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- /10.396	- /1.251	- / -	- / -	- / -	- /11.647

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393 / 10.396

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- /1.251

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- / -

- / -

- / -

- / -

- / -

- / -

- /6.118

126 / 6.118

393 / 11.647

- / -

- / -

Subtotal: Voice Intercommunication System	- / -	- / -	- / -	- / -	- / -	-
Modification Item 3 of 6: Avenger Fire Control						
Computer						

- / -

- / -

- / -

- / -

- /6.118

126 / 6.118

Computer												
A Kits												
Recurring												
Kit Quantity	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	170 / 6.452	- 1 -	- 1 -	- 1 -	- 1 -	170 / 6.45
System Engineering/Program Management	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.427	- / 0.102	- 1 -	- / -	- 1 -	- / 0.52
Spares/Repair Parts	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.648	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.64
Transportation	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.214	- 1 -	- / -	- 1 -	- / 0.21
New Equipment Training	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.412	- 1 -	- 1 -	- 1 -	- / 0.41
Engineering Services	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.156	- / 0.030	- 1 -	- 1 -	- 1 -	- / 0.18
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- /7.683	- /0.758	- / -	- / -	- / -	- /8.44

LI CE8710 - AVENGER MODS Army

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Exhibit P-3a, Individual Modification: PB 2017 Army Date: February 2016 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: 2032A / 03 / 10 CE8710 / AVENGER MODS CE8710 / Avenger Modification

Models of Systems Affected: Avenger Basic and Modification Type: Operational Related RDT&E PEs:

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Subtotal: Avenger Fire Control Computer	- / -	- / -	- / -	- / -	- / -	- / -	170 / 7.683	- /0.758	- / -	- / -	- / -	170 / 8.44
Modification Item 4 of 6: Mode 5/Identification Friend or Foe			'	'	1	,	-			,		
A Kits												
Recurring												
Kit Quantity	- 1 -	- 1 -	- 1 -	131 / 27.431	- 1 -	131 / 27.431	161 / 28.798	101 / 17.396	- 1 -	- 1 -	- 1 -	393 / 73.62
Engineering Services	- 1 -	- 1 -	- 1 -	- /1.193	- 1 -	- /1.193	- /0.812	- / 0.679	- 1 -	- 1 -	- 1 -	- /2.68
Program Management Support	- 1 -	- 1 -	- 1 -	- / 0.260	- 1 -	- /0.260	- / 0.293	- / 0.182	- 1 -	- 1 -	- 1 -	- /0.73
Transportation	- 1 -	- 1 -	- 1 -	- /0.216	- 1 -	- / 0.216	- / 0.245	- / 0.151	- 1 -	- 1 -	- 1 -	- / 0.61
Interim Contractor Support	- 1 -	- 1 -	- 1 -	- /2.030	- 1 -	- /2.030	- /2.074	- / 1.336	- 1 -	- 1 -	- 1 -	- /5.44
Spares/Repairs	- 1 -	- 1 -	- 1 -	- /1.136	- 1 -	- /1.136	- /1.371	- / 0.998	- 1 -	- 1 -	- 1 -	- /3.50
Subtotal: Recurring	- / -	- / -	- / -	- /32.266	- / -	- /32.266	- /33.593	- /20.742	- / -	- / -	- / -	- /86.60
Subtotal: Mode 5/Identification Friend or Foe	- / -	- / -	- / -	131 / 32.266	- / -	131 / 32.266	161 / 33.593	101 / 20.742	- / -	- / -	- / -	393 / 86.60
Modification Item 5 of 6: Targeting Console					l I		I	I				
A Kits												
Recurring												
Kit Quantity	- / -	170 / 4.077	- 1 -	- / -	- / -	- / -	- / -	- 1 -	- / -	- / -	- / -	170 / 4.07
Engineering Services	- 1 -	- /0.441	- 1 -	- / -	- / -	- / -	- / -	- 1 -	- / -	- / -	- / -	- /0.44
SE/PM	- 1 -	- / 0.364	- 1 -	- 1 -	- / -	- / -	- 1 -	- 1 -	- / -	- / -	- 1 -	- / 0.36
Spares/Repairs	- 1 -	- / 0.182	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.18
NET	- 1 -	- /0.022	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.02
Common Requirements	- 1 -	- / 0.525	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.52
Subtotal: Recurring	- / -	- /5.611	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /5.61
Subtotal: Targeting Console	- / -	170 / 5.611	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 5.61
Modification Item 6 of 6: Environmental Control Unit/ Prime Power Unit								I				
A Kits												
Recurring												
Kit Quantity	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	50 / 5.876	26 / 3.126	5 / 0.752	4 / 0.687	41 / 4.818	126 / 15.25
Spares/Repairs	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.588	- / 0.313	- /0.068	- / 0.054	- / 0.482	- /1.50
Transportation	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.588	- / 0.313	- / 0.068	- / 0.054	- / 0.482	- /1.50
NET	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /1.641	- / 0.822	- / 0.081	- /0.081	- /1.641	- /4.26
Engineering Services	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 0.115	- / 0.097	- / 0.122	- / 0.134	- / 0.115	- / 0.58

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Army

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

Appropriation / Budget Activity / Budget Sub Activity:
2032A / 03 / 10

P-1 Line Item Number / Title:
CE8710 / AVENGER MODS

Modification Number / Title:
CE8710 / Avenger Modification

Models of Systems Affected: Avenger Basic and Modification Type: Operational Related RDT&E PEs:

Slew-to-Cue Systems

Siew-to-Cue Systems												
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)											
SE/PM	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- / 0.538	- / 0.313	- / 0.160	- / 0.165	Continuing	Continuing
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- /9.346	- /4.984	- /1.251	- /1.175	Continuing	Continuing
Subtotal: Environmental Control Unit/Prime Power Unit	- / -	- / -	- / -	- / -	- / -	- / -	50 / 9.346	26 / 4.984	5 / 1.251	4 / 1.175	Continuing	Continuing
Subtotal: Procurement, All Modification Items	- / -	170 / 5.611	126 / 6.118	131 / 32.266	- / -	131 / 32.266	774 / 61.018	127 / 27.735	5 / 1.251	4 / 1.175	Continuing	Continuing
Installation			<u></u>			<u>'</u>	<u></u>	<u>'</u>	<u>'</u>		<u>'</u>	<u>'</u>
Modification Item 1 of 6: M3P Machine Gun	- 1 -	- 1 -	126 / 0.037	- 1 -	- 1 -	- / -	- 1 -	- / -	- / -	- / -	- / -	126 / 0.037
Modification Item 2 of 6: Voice Intercommunication System	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	393 / 1.788	- / -	- 1 -	- / -	393 / 1.788
Modification Item 3 of 6: Avenger Fire Control Computer	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	170 / 0.540	- / -	- / -	- / -	170 / 0.540
Modification Item 4 of 6: Mode 5/Identification Friend or Foe	- 1 -	- 1 -	- 1 -	131 / 1.340	- / -	131 / 1.340	161 / 1.463	101 / 1.025	- / -	- 1 -	- / -	393 / 3.828
Modification Item 5 of 6: Targeting Console	- 1 -	- 1 -	170 / 0.016	- 1 -	- 1 -	- / -	- 1 -	- / -	- / -	- / -	- / -	170 / 0.016
Modification Item 6 of 6: Environmental Control Unit/ Prime Power Unit	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	50 / 0.642	26 / 0.346	5 / 0.146	4 / 0.149	41 / 1.527	126 / 2.810
Subtotal: Installation	- / -	- / -	296 / 0.053	131 / 1.340	- / -	131 / 1.340	211 / 2.105	690 / 3.699	5/0.146	4 / 0.149	41 / 1.527	1,378 / 9.019
Total			•			-	•	-	•		•	
Total Cost (Procurement + Support + Installation)	- 1	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing

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Exhibit P-3a, Indiv	idual Modification: F	B 2017 Army				Date: February 2016	6
Appropriation / Bu 2032A / 03 / 10	idget Activity / Budg	et Sub Activity:	P-1 Line Item Nu CE8710 / AVENC			Modification Numb CE8710 / Avenger M	
Modification Item 1 of	6: M3P Machine Gun		•				
Manufacturer Informat	ion						
Manufacturer Name: FN	Herstal			Manufacturer Location: V	irginia, South Carolina		
Administrative Leadtime	(in Months): 1			Production Leadtime (in I	Months): 5		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Feb 2016					
Delivery Dates		Sep 2016					

Installation Information

Method of Implementation: Replacement in Field

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	- 1 -	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	- / 0.000
FY 2015	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	- 1 -	- 1 -	126 / 0.037	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	126 / 0.037
FY 2017	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	126 / 0.037	- / -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	126 / 0.037

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126
Out	-	-	-	-	-	-	-	-	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126

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Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 2016	3
Appropriation / Bu 2032A / 03 / 10	dget Activity / Budge	et Sub Activity:	P-1 Line Item Num CE8710 / AVENGER			Modification Numb CE8710 / Avenger N	
Modification Item 2 of 6	: Voice Intercommunication	System					
Manufacturer Information	on						
Manufacturer Name: CEO	COM Managed Item			Manufacturer Location: To	obyhanna, PA		
Administrative Leadtime	(in Months): 1			Production Leadtime (in N	Months): 9		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Aug 2018			
Delivery Dates				Oct 2018			

Installation Information

Method of Implementation: Contractor Field Service Representative (CFSR) Installation

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	- 1 -	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	- / 0.000
FY 2015	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	393 / 1.788	- 1 -	- 1 -	- 1 -	393 / 1.788
FY 2019	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	393 / 1.788	- 1 -	- 1 -	- 1 -	393 / 1.788

Installation Schedule

			FY 2	015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	106	106	106	-	-	-	-	-	-	-	-	-	393
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	106	106	106	-	-	-	-	-	-	-	-	-	393

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Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 201	6
Appropriation / Bu 2032A / 03 / 10	dget Activity / Budge	et Sub Activity:	P-1 Line Item Num CE8710 / AVENGER			Modification Numb CE8710 / Avenger M	
Modification Item 3 of 6	: Avenger Fire Control Com	puter					
Manufacturer Information	on						
Manufacturer Name: Boe	ing			Manufacturer Location: E	verett, Washington		
Administrative Leadtime	(in Months): 1			Production Leadtime (in N	Months): 9		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Apr 2018			
Delivery Dates				Jan 2019			

Installation Information

Method of Implementation: Integration and Installation in the Field

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	- 1 -	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	- / 0.000
FY 2015	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	170 / 0.540	- 1 -	- 1 -	- 1 -	170 / 0.540
FY 2019	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	170 / 0.540	- 1 -	- 1 -	- 1 -	170 / 0.540

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot																				
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	90	-	-	-	-	-	-	-	-	-	-	170
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	90	-	-	-	-	-	-	-	-	-	-	170

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Page 10 of 13 P-1 Line #17

Exhibit P-3a, Indivi	idual Modification: PE	3 2017 Army				Date: February 2016	3
Appropriation / Bu 2032A / 03 / 10	dget Activity / Budge	t Sub Activity:	P-1 Line Item Nu CE8710 / AVENG			Modification Number CE8710 / Avenger M	
Modification Item 4 of 6	3: Mode 5/Identification Frien	d or Foe	•			•	
Manufacturer Informati	on						
Manufacturer Name: Boo	eing			Manufacturer Location: E	verett, Washington		
Administrative Leadtime	(in Months): 1			Production Leadtime (in I	Months): 5		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Jan 2017	Nov 2017	Nov 2018		
Delivery Dates			May 2017	Apr 2018	Apr 2019		

Installation Information

Method of Implementation: Contractor Field Service Representative (CFSR) Installation

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	- 1 -	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	- /0.000
FY 2015	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	- 1 -	- 1 -	- 1 -	131 / 1.340	- 1 -	131 / 1.340	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	131 / 1.340
FY 2018	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	161 / 1.463	- 1 -	- 1 -	- 1 -	- 1 -	161 / 1.463
FY 2019	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	101 / 1.025	- 1 -	- 1 -	- 1 -	101 / 1.025
FY 2020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	131 / 1.340	- 1 -	131 / 1.340	161 / 1.463	101 / 1.025	- 1 -	- 1 -	- 1 -	393 / 3.828

Installation Schedule

			FY 2	015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	66	65	-	-	81	80	-	-	51	50	-	-	-	-	-	-	-	-	-	393
Out	-	-	-	-	-	-	-	-	-	-	-	66	65	-	-	81	80	-	-	51	50	-	-	-	-	-	-	-	-	-	393

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LI CE8710 - AVENGER MODS Page 11 of 13 P-1 Line #17 Army

Exhibit P-3a, Indiv	vidual Modification: F	B 2017 Army				Date: February 201	6
Appropriation / B e 2032A / 03 / 10	udget Activity / Budg	et Sub Activity:	P-1 Line Item Nu CE8710 / AVENG			Modification Numb CE8710 / Avenger M	
Modification Item 5 of	6: Targeting Console		·				
Manufacturer Information	tion						
Manufacturer Name: Ba	irco			Manufacturer Location: I	Rancho Cordova, Californ	iia	
Administrative Leadtime	e (in Months): 1			Production Leadtime (in	Months): 15		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Apr 2015						
Delivery Dates	Sep 2016						

Installation Information

Method of Implementation: Contractor Field Service Representative (CFSR) Installation

			(/									
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	- 1 -	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	- /0.000
FY 2015	- 1 -	- 1 -	170 / 0.016	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	170 / 0.016
FY 2016	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	170 / 0.016	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	170 / 0.016

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170
Out	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170

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LI CE8710 - AVENGER MODS Army

Exhibit P-3a, Indiv	idual Modification: Pl	B 2017 Army				Date: February 2016	6
Appropriation / Bu 2032A / 03 / 10	idget Activity / Budge	et Sub Activity:	P-1 Line Item Nui CE8710 / AVENG			Modification Numb CE8710 / Avenger M	
Modification Item 6 of	6: Environmental Control Un	it/Prime Power Unit	·				
Manufacturer Informat	ion						
Manufacturer Name: AV	/CF Managed Item- Marvin L	_and Systems		Manufacturer Location: In	glewood, CA		
Administrative Leadtime	(in Months): 4			Production Leadtime (in N	Months): 5		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Mar 2018	Dec 2018	Oct 2019	Nov 2020
Delivery Dates				Aug 2018	Sep 2019	Sep 2020	Aug 2021

Installation Information

Method of Implementation: Contractor Field Service Representative (CFSR) Installation

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	- 1 -	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	- / 0.000
FY 2015	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -
FY 2016	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	50 / 0.642	- 1 -	- 1 -	- 1 -	- 1 -	50 / 0.642
FY 2019	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	26 / 0.346	- 1 -	- 1 -	- 1 -	26 / 0.346
FY 2020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	5 / 0.146	- 1 -	- 1 -	5 / 0.146
FY 2021	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	4 / 0.149	- 1 -	4 / 0.149
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	41 / 1.527	41 / 1.527
Total	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	50 / 0.642	26 / 0.346	5 / 0.146	4 / 0.149	41 / 1.527	126 / 2.810

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot																				
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	26	-	-	-	5	-	-	-	4	41	126
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	26	-	-	-	5	-	-	-	4	41	126

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LI CE8710 - AVENGER MODS Page 13 of 13 P-1 Line #17 Army

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

Modifications

C61700 / ITAS/TOW Mods

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

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

			-(-)									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,749.699	19.676	19.576	0.383	-	0.383	-	-	-	-	-	1,789.334
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,749.699	19.676	19.576	0.383	-	0.383	-	-	-	-	-	1,789.334
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,749.699	19.676	19.576	0.383	-	0.383	-	-	-	-	-	1,789.334
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne correspondin	g budget requests	s are documente	ed elsewhere.)		*		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	65.533	-	65.533	-	-	-	-	-	2,105.099

Description:

The Improved Target Acquisition System (ITAS) with Far Target Location (FTL) 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 with the TOW Missile provides the capability to defeat armored vehicles, bunkers, and buildings at extended ranges in all battlefield conditions. 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 with its ability to generate a 10 digit grid coordinate of a target location. The ITAS completed fielding to the total Army in December 2012. The ITAS Image Enhancement (IE) Modification Kit reduces operator workload by optimizing the image presented to the gunner through electronic processing. Electronic focus, image stabilization, and other processing techniques ensure that the image presented is optimized for the environment without manual manipulation of the various adjustment settings. This reduces the operations required by the gunner to achieve a consistent high quality image, reduces the time required to identify and engage targets on the battlefield. ITAS continues to be the weapon of choice in precision combat engagements.

	•			FY 2017	FY 2017	FY 2017				
Secondary	/ Distribution	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.902	0.383	-	0.383	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.676	13.160	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.514	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	19.676	19.576	0.383	-	0.383	-	-	-	-

UNCLASSIFIED LI C61700 - ITAS/TOW Mods 138 Page 1 of 5 P-1 Line #18 Army

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

C61700 / ITAS/TOW Mods

Modifications

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	C61700 / NA (NA)			- / 1,749.699	- / 19.676	- / 19.576	- / 0.383	- / -	- / 0.383
P-40	Total Gross/Weapon System Cost			- / 1,749.699	- / 19.676	- / 19.576	- / 0.383	- 1 -	- / 0.383
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)				
P-3a	C61700 / NA (NA)			- / -	- / -	- / -	- / -	- / -	- / 1,789.334
P-40	Total Gross/Weapon System Cost			- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 1,789.334

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

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

Justification:

FY2017 Base Procurement dollars in the amount of \$0.383 million supports procurement of 6 ITAS Image Enhancement kits and the fielding and installation of kits as well as Government and contractor program management support.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
2032A / 03 / 10	C61700 / ITAS/TOW Mods	C61700 / NA

2032A / 03 / 10	Resource Summary Years FY			700 / ITAS	TOW Mods	5			C61700	/ NA		
Resource Summary		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,749.699	19.676	19.576	0.383	-	0.383	-	-	-	-	-	1,789.334
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,749.699	19.676	19.576	0.383	-	0.383	-	-	-	-	-	1,789.334
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,749.699	19.676	19.576	0.383	-	0.383	-	-	-	-	-	1,789.334
(The following	Resource Sumr	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	65.533	-	65.533	-	-	-	-	-	2,105.099

Description:

The Improved Target Acquisition System (ITAS) with Far Target Location (FTL) 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 with the TOW Missile provides the capability to defeat armored vehicles, bunkers, and buildings at extended ranges in all battlefield conditions. 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 with its ability to generate a 10 digit grid coordinate of a target location. The ITAS completed fielding to the total Army in December 2012. The ITAS Image Enhancement (IE) Modification Kit reduces operator workload by optimizing the image presented to the gunner through electronic processing. Electronic focus, image stabilization, and other processing techniques ensure that the image presented is optimized for the environment without manual manipulation of the various adjustment settings. This reduces the operations required by the gunner to achieve a consistent high quality image, reduces the time required to identify and engage targets on the battlefield. ITAS continues to be the weapon of choice in precision combat engagements.

FY2017 Base Procurement dollars in the amount of \$0.383 million supports procurement of 6 ITAS Image Enhancement kits and the fielding and installation of kits as well as Government and contractor program management support.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Se	condary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.902	0.383	-	0.383	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	19.676	13.160	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.514	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	=
Secondary Distribution	Total Obligation Authority	19.676	19.576	0.383	-	0.383	-	-	-	-

LI C61700 - ITAS/TOW Mods
Army

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P-1 Line #18

				0.10_,								
Exhibit P-3a, Individual Modification: P	B 2017 Arn	าy							Date: Feb	ruary 2016	3	
Appropriation / Budget Activity / Budget 2032A / 03 / 10	et Sub Acti	vity:	_	tem Numb					Modificat C61700 /	ion Numb o NA	er / Title:	
Models of Systems Affected: NA		Modifi	cation Typ	e: NA			Re	lated RDT	&E PEs:			
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ N										
Procurement	, ,		, , ,		<u> </u>			. ,				
Modification Item 1 of 1: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)												
A Kits												
Recurring												
Kit Quantity	0 / 1.619	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 1.61
Equipment	0 / 1,379.037	- / 15.394	- / 15.394	- / 0.302	- 1 -	- / 0.302	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 1,410.12
Fielding	0 / 79.257	- /1.622	- /4.005	- /0.029	- 1 -	- / 0.029	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- / 84.91
Project Management	0 / 117.852	- /2.660	- / 0.177	- / 0.052	- 1 -	- / 0.052	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- <i>I</i> 120.74
Data	0 / 3.097	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /3.09
Subtotal: Recurring	- /1,580.862	- /19.676	- /19.576	- /0.383	- / -	- /0.383	- / -	- / -	- / -	- / -	- / -	- /1,620.49
Non-Recurring												
Training Equipment	0 / 86.712	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 86.71
Production Line Restart	0 / 5.993	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 5.99
Initial Spares	0 / 76.132	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /76.13
Subtotal: Non-Recurring	- /168.837	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /168.83
Subtotal: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)	0 / 1,749.699	- /19.676	- /19.576	- /0.383	- / -	- /0.383	- / -	- / -	- / -	- / -	- / -	- /1,789.33
Subtotal: Procurement, All Modification Items	0 / 1,749.699	- /19.676	- /19.576	- /0.383	- / -	- /0.383	- / -	- / -	- / -	- / -	- / -	- /1,789.33
Installation												
Modification Item 1 of 1: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Subtotal: Installation	0 /0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	1,749.699	19.676	19.576	0.383	-	0.383	-	-	l -	-	_	1,789.33

LI C61700 - ITAS/TOW Mods Army UNCLASSIFIED Page 4 of 5

Exhibit P-3a, Indivi	dual Modification: Pl	3 2017 Army				Date: February 201	6
Appropriation / Buo 2032A / 03 / 10	dget Activity / Budge	t Sub Activity:	P-1 Line Item Nu C61700 / ITAS/TO			Modification Numb	oer / Title:
Modification Item 1 of 1.	: ITAS (IMPROVED TARGE	T ACQUISITION SYST	EM)			·	
Manufacturer Information	on						
Manufacturer Name: Ray	theon Network Centric Syst	ems Company		Manufacturer Location: N	McKinney, TX		
Administrative Leadtime ((in Months): 4			Production Leadtime (in	Months): 23		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015					
Delivery Dates	Feb 2017	Sep 2017					

Installation Information

Method of Implementation: Organic

	Daile a Veneral	EV 0045	EV 0040	FY 2017	FY 2017	FY 2017	EV 0040	EV 0040	FV 0000	EV 0004	То	T-4-1
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- 1 -	- 1 -	- 1 -	- 1 -	- /0.000	- / 0.000
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -

Installation Schedule

		2		2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021							
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	1,552	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,552
Out	1,552	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,552

UNCLASSIFIED LI C61700 - ITAS/TOW Mods Army

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

Modifications

C67500 / MLRS Mods

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

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

	100111 1112		-(-)									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	399.762	10.380	35.970	34.704	-	34.704	36.771	37.312	46.698	46.968	158.380	806.945
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	399.762	10.380	35.970	34.704	-	34.704	36.771	37.312	46.698	46.968	158.380	806.945
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	399.762	10.380	35.970	34.704	-	34.704	36.771	37.312	46.698	46.968	158.380	806.945
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	2,892.000	-	2,892.000	-	-	-	-	-	949.347

Description:

The Multiple Launch Rocket System (MLRS) is a full spectrum, combat proven, all weather, 24/7, tracked weapon system. This precision strike weapon system 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 complemented 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. The number of M270A1 battalions for US Forces Korea (USFK) was increased from two battalions to three battalions in FY16, and the Army Prepositioned Stock 4 (APS 4) was also increased by two M270A1 launchers.

Seconda	ry Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.380	35.970	34.704	-	34.704	36.771	37.312	28.307	27.604
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.000	-	-	-	-	-	-	18.391	19.364
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	10.380	35.970	34.704	-	34.704	36.771	37.312	46.698	46.968

LI C67500 - MLRS Mods
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P-1 Line #19

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

C67500 / MLRS Mods

Modifications

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Date: February 2016

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

						, , , , , , , , , , , , , , , , , , , ,			
	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	C67500 / Multiple Launch Rocket System (MLRS) Modifications (.)			- / 399.762	- / 10.380	- / 35.970	- /34.704	- / -	- / 34.704
P-40	Total Gross/Weapon System Cost			- / 399.762	- / 10.380	- / 35.970	- / 34.704	- 1 -	- / 34.704
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	C67500 / Multiple Launch Rocket System (MLRS) Modifications (.)			- / 36.771	- / 37.312	- /46.698	- /46.968	- / 158.380	- /806.945
P-40	Total Gross/Weapon System Cost			- / 36.771	- / 37.312	- / 46.698	- / 46.968	- / 158.380	- / 806.945

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

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

Justification:

FY17 Base procurement dollars in the amount of \$34.704 million facilitizes the Improved Armored Cab (IAC) production line, supports contract award for the Improved Armored Cab (IAC) Low Rate Initial Production (LRIP), initiates the Fire Control System-Update (FCS-U) production contract and continues Obsolescence Mitigation/Engineering Change Proposal process to support integration and updates for automotive hardware and fire control system software required to support launcher upgrades (e.g., M-Code GPS components). Funds in FY18-21 will continue the production of IAC and FCS-U and the preparation for training and fielding for IAC and FCS-U.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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

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

2032A / 03 / 10 C67500 / MLRS Mods C67500 / Multiple Launch Rocket System

(MLRS) Modifications

	Prior			FY 2017	FY 2017	FY 2017					То	
Resource Summary	Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	399.762	10.380	35.970	34.704	-	34.704	36.771	37.312	46.698	46.968	158.380	806.945
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	399.762	10.380	35.970	34.704	-	34.704	36.771	37.312	46.698	46.968	158.380	806.945
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	399.762	10.380	35.970	34.704	-	34.704	36.771	37.312	46.698	46.968	158.380	806.945
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	p budget request	s are documente	d elsewhere.)			<u>'</u>	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	2,892.000	-	2,892.000	-	-	-	-	-	949.347

Description:

Modifications of the MLRS System

Second	lary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.380	35.970	34.704	-	34.704	36.771	37.312	28.307	27.604
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.000	-	-	-	-	-	-	18.391	19.364
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	10.380	35.970	34.704	-	34.704	36.771	37.312	46.698	46.968

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				UNCLA	SOILIED							
Exhibit P-3a, Individual Modification: P	B 2017 Arm	ıy							Date: Feb	ruary 2016		
Appropriation / Budget Activity / Budge 2032A / 03 / 10	et Sub Acti	vity:	_	tem Numb MLRS Mod					C67500 /	ion Numbe Multiple La lodifications	unch Rock	et System
Models of Systems Affected: M270A1		Modif	ication Typ	e: .			Re	lated RDT	&E PEs:			
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)									
Procurement								,	,	,		
Modification Item 1 of 4: Inactive Mods												
A Kits												
Recurring												
Equipment	9 / 318.133	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	9 / 318.133
Subtotal: Recurring	- /318.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /318.133
Subtotal: Inactive Mods	9 / 318.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 318.133
Modification Item 2 of 4: Obsolescence Mitigations/ ECP Reliability Intg												
A Kits												
Recurring												
Equipment	0 / 36.092	- /1.400	- / 0.756	- / 0.045	- 1 -	- / 0.045	- /1.005	- / 0.832	- / -	- 1 -	- 1 -	- /40.130
Subtotal: Recurring	- /36.092	- /1.400	- /0.756	- /0.045	- / -	- /0.045	- /1.005	- /0.832	- / -	- / -	- / -	- /40.130
Subtotal: Obsolescence Mitigations/ECP Reliability Intg	0 /36.092	- /1.400	- /0.756	- /0.045	- / -	- /0.045	- /1.005	- /0.832	- / -	- / -	- / -	- /40.130
Modification Item 3 of 4: Improved Armored Cab (IAC)												
A Kits												
Recurring												
Equipment	0 / 7.716	9 / 8.542	7 / 21.904	6 / 16.169	- 1 -	6 / 16.169	5 / 14.466	4 / 13.593	6 / 23.930	6 / 23.818	- / 88.534	43 / 218.672
Subtotal: Recurring	- /7.716	- /8.542	- /21.904	- /16.169	- / -	- /16.169	- /14.466	- /13.593	- /23.930	- /23.818	- /88.534	- /218.672
Subtotal: Improved Armored Cab (IAC)	0 /7.716	9 / 8.542	7 / 21.904	6 / 16.169	- / -	6 / 16.169	5 / 14.466	4 / 13.593	6 / 23.930	6 / 23.818	- /88.534	43 / 218.672
Modification Item 4 of 4: Fire Control System (FCS) Upgrade												
A Kits												
Recurring												
Equipment	- 1 -	- 1 -	7 / 12.346	6 / 14.066	- 1 -	6 / 14.066	6 / 17.394	6 / 19.448	6 / 19.538	8 / 19.859	- / 69.846	39 / 172.497
Subtotal: Recurring	- / -	- / -	- /12.346	- /14.066	- / -	- /14.066	- /17.394	- /19.448	- /19.538	- /19.859	- / 69.846	- /172.497
Subtotal: Fire Control System (FCS) Upgrade	- / -	- / -	7 / 12.346	6 / 14.066	- / -	6 / 14.066	6 / 17.394	6 / 19.448	6 / 19.538	8 / 19.859	- /69.846	39 / 172.497
Subtotal: Procurement, All Modification Items	9 / 361.941	9/9.942	14 / 35.006	12 / 30.280	- / -	12 / 30.280	11 / 32.865	10 / 33.873	12 / 43.468	14 / 43.677	- /158.380	91 / 749.432
Installation												
Modification Item 1 of 4: Inactive Mods	9 / 37.821	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	9 / 37.821
Modification Item 3 of 4: Improved Armored Cab (IAC)	0 / 0.000	9 / 0.438	7 / 0.538	6 / 3.927	- 1 -	6 / 3.927	5 / 3.472	4 / 2.996	6 / 2.778	6 / 2.437	- 1 -	43 / 16.586

LI C67500 - MLRS Mods
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Models of Systems Affected: M270A1	Modifi	cation Type: .	Related RDT	&E PEs:
Appropriation / Budget Activity / Budget Sub Activity 2032A / 03 / 10		P-1 Line Item Number / Title: C67500 / MLRS Mods		Modification Number / Title: C67500 / Multiple Launch Rocket System (MLRS) Modifications
Exhibit P-3a, Individual Modification: PB 2017 Army				Date: February 2016

Models of Systems Affected: M270A1		Modifi	cation Typ	e: .			Re	lated RDT	&E PEs:			
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)											
Modification Item 4 of 4: Fire Control System (FCS) Upgrade	0 / 0.000	- 1 -	7 / 0.426	6 / 0.497	- 1 -	6 / 0.497	6 / 0.434	6 / 0.443	6 / 0.452	8 / 0.854	- 1 -	39 / 3.106
Subtotal: Installation	9 / 37.821	9 / 0.438	14 / 0.964	12 / 4.424	- / -	12 / 4.424	11 / 3.906	10 / 3.439	12 / 3.230	14/3.291	- / -	91 / 57.513
Total												
Total Cost (Procurement + Support + Installation)	399.762	10.380	35.970	34.704	-	34.704	36.771	37.312	46.698	46.968	158.380	806.945

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Exhibit P-3a, Individ	dual Modification: Pl	3 2017 Army				Date: February 2016	
Appropriation / Buo 2032A / 03 / 10	lget Activity / Budge	t Sub Activity:	P-1 Line Item Numb C67500 / MLRS Mod			Modification Number C67500 / Multiple La (MLRS) Modifications	unch Rocket System
Modification Item 1 of 4:	Inactive Mods						
Manufacturer Information	n						
Manufacturer Name: TBD				Manufacturer Location: TE	BD		
Administrative Leadtime (in Months):			Production Leadtime (in N	Nonths):		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: TBD

				FY 2017	FY 2017	FY 2017					То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	9 / 37.821	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	9 / 37.821
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	9 / 37.821	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	9 / 37.821

Installation Schedule

				FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			FY 2	021			
	PY	rs	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot																
In		9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Ou		9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	9

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Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 2016	3
Appropriation / Buo 2032A / 03 / 10	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nun C67500 / MLRS M			Modification Number C67500 / Multiple La (MLRS) Modification	unch Rocket System
Modification Item 2 of 4	: Obsolescence Mitigations	/ECP Reliability Intg	•			·	
Manufacturer Information	on						
Manufacturer Name: TBD)			Manufacturer Location: TE	BD		
Administrative Leadtime ((in Months):			Production Leadtime (in M	fonths):		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementati	on (Organic): TBD				Installation (Quantity: 0	

LI C67500 - MLRS Mods
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														• • • • • • • • • • • • • • • • • • • •		50 11															
Exh	ibit P-	-3a, lı	ndivi	dual	Modi	fication	on: Pl	B 20	17 Arm	าy														Date	: Feb	ruary	201	6			
	ropria 2A / 03			dget	Activ	ity / E	Budge	t Su	b Acti	vity:					Numb S Mod		itle:							C675	00 /		le La	er / Ti aunch ns		et Sy	stem
Modi	fication	n Item	3 of 4.	: Impro	oved A	mored	Cab (l	AC)																							
Manı	ıfacture	er Info	rmatic	on																											
Manu	ıfacture	r Nam	e: TBD)												Manuf	acture	r Location	on: TE	3D											
Admi	nistrativ	e Lead	dtime (in Moi	nths): 3											Produ	ction L	eadtime	in M	(lonths	9										
	Dat	tes			FY	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021	
Contr	act Dat	es							Aug	2016			Oct :	2016			Oct 2	2017			Oct 2	2018			Oct	2019			Oct	2020	
Deliv	ery Date	es							Sep	2017			Sep	2017			Sep	2018			Sep	2019			Sep	2020			Sep	2021	
									·											l	•										-
Insta	llation	Inform	nation																												
Meth	od of Ir	mplem	nentati	on: TE	3D																										
						Pr	ior Yea	ars	FY 201	15	FY 20	16	FY 2	- 1	FY 2			2017 otal	FY	′ 2018	F	Y 2019		FY 2020	0	FY 202	21	To Comp		Tot	tal
	li	nstalla	ation C	Cost			Qty (Each)		Qty (Each		Qty (Eac		Qty (Ea		Qty (E	ach) I st (\$ M)		(Each) I Cost (\$ M)		(Each) I Cost (\$ N		y <i>(Each)</i> I Cost <i>(</i> \$		Qty (Each)		Qty (Each		Qty (Ea		Qty (E Total Co	
Prior Y	ears						0 /0			0.000	- 1	0.000	-	1 0.000		- 1 -		- /0.000		- /0.00	_	- /0.0		- /0	.000	- /(0.000	-	1 0.000	-	10.0
FY 201							0 /0			0.438		0.538		. 1 -		- 1 -		- 1 -		- 1 -		- 1		- 1	-		1 -	-	1 -		6 / 0.9
FY 201							0 /0			1 -		1 -		1 3.927		- 1 -		6 / 3.927		- 1 -		- 1		- 1			1 -		1 -		6/3.9
FY 201 FY 201							0 /0		-	/ - / -		1 -		. / -		- <i>I</i> -		- 1 -		5/3.47	2	- 1 412.9		- 1			<i>1</i> -		<i>1</i> -		5 / 3.4 4 / 2.9
FY 201								.000		1 -		1 -		. / -		- / -		- / -		- / -		- /		6/2			1 -		1 -		6/2.7
FY 202							0 /0		-			1 -		. 1 -		- / -		- 1 -		- 1 -		- 1		- 1	_		2.437		1 -		6/2.4
FY 202	:1						0 /0	.000	-	1 -	-	1 -	-	. / -		- 1 -		- 1 -		- 1 -		- 1	-	- 1	-		1 -	-	1 -		- 1
To Cor	nplete						0 /0		-			1 -		. 1 -		- 1 -		- 1 -		- 1 -		- 1		- 1			1 -		1 -		- 1
Total							0 /0	.000	9/0	0.438	7 /	0.538	6	1 3.927		- / -		6 / 3.927		5 / 3.47	2	4/2.9	996	6/2	.778	6/2	2.437	-	1 -	43	<i>I</i> 16.5
	llation	Sched				1																								1	1
insta			FY	2015				2016				2017	Q4	-	FY 2			04	FY 2			0.4		2020		0.1		2021			_
insta	D)/G				·						1 (12)	L C) 3	1 ()4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	То
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3		Q1	Q2	Q3	-				4.4				4.0			1	0.1					400	0.0
Insta In Out	PYS -	Q1 -		Q3	Q4 -	Q1 -	- Q2	- Q3	3	- -	-	- 1	13	-	- 4	- 5	11 5	- 2	- 3	- 3	10	- 2	-	2 3	24	- 4	- 6	-	- 7	162 161	22

Exh	ibit P	-3a, I	ndivi	dual I	Modif	catio	n: Pl	B 201	7 Army										Date:	February 20	16		
	oropria 2A / 03			iget A	Activi	ty / B	udge	et Sul	o Activit	. y :			em Nur //LRS M		Title:				C6750	cation Num 0 / Multiple I 3) Modification	_aunch Roc	ket Sys	ste
Mod	ificatio	n Item	4 of 4:	Fire C	ontrol S	System	(FCS) Upgr	ade										1,	·			
Man	ufactur	er Info	rmatio	n		-		, , ,															
Manı	ufacture	er Nam	e: TBD											Man	nufacture	r Locatio	n: TBD						_
Admi	inistrativ	ve Lea	dtime (in Mon	ths): 3									Prod	duction L	.eadtime	(in Months): 6	;					
	Da	ites			FY 2	:015			FY 201	6	\top	FY 2	017		FY 2	2018		FY 2019		FY 2020	F)	2021	
Cont	ract Dat	tes									+				Nov	2017		Nov 2018		Nov 2019	No	v 2020	
Deliv	ery Dat	es									+				Aua	2018		Aug 2019		Aug 2020	Au	g 2021	
	,														9					g		9	
Insta	llation	Inforn	nation																				
Meth	od of li	mplen	entati	on: TB	D																		
						Pri	or Yea	ars	FY 2015	FY 2	2016	FY 20 Bas		Y 2017 OCO	1	2017 otal	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Tota	tal
	ı	Install	ation C	ost			ty (Each)		Qty (Each) I otal Cost (\$ M	Qty (E		Qty (Eac		ty <i>(Each) I</i> al Cost <i>(\$ M</i>		(Each) I Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Ea	
Prior Y	'ears						0 /0	.000	- /0.00	0 -	1 0.000	- 1	0.000	- 1 -		- /0.000	- /0.000	- / 0.000	- / 0.00	- /0.000	- /0.000	-	10.
FY 20								.000	- 1 -	_	7 / 0.426		1 -	- 1 -		- 1 -	- 1 -	- 1 -	- 1 -		- 1 -		7 / 0.4
FY 20	16						0 /0	.000	- / -		- / -	6 /	0.497	- 1 -	-	6 / 0.497	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	6	6/0.4
	10												0.101		_							_	6/0.4
FY 20							0 /0	.000	- 1 -		- 1 -		1 -	- 1 -	-	- 1 -	6 / 0.434	- 1 -	- 1 -	- 1 -	- 1 -	6	
FY 20°	17						0 /0	.000	- 1 -		- 1 -	-	1 -	- 1 -	_	- 1 -	6 / 0.434	- / - 6/0.443	- 1 -	- 1 -	- 1 -		
FY 20°	17 18 19						0 /0	0.000	- I - - I -		- 1 -	- - -	1 - 1 -	- <i>I</i> -	-	- 1 -	- <i>I</i> -	6 / 0.443 - / -	- / - 6/0.45	- 1 -	- 1 -	6	6 / 0.4 6 / 0.4
FY 20° FY 20°	17 18 19 20						0 /0 0 /0 0 /0	0.000 0.000 0.000	- / - - / -		- <i>I</i> - - <i>I</i> -	- - -	1 - 1 - 1 -	- I - - I -	-	- <i>I</i> - - <i>I</i> -	- 1 - - 1 - - 1 -	6 / 0.443 - / - - / -	- / - 6/0.45 - / -	- / - 2 - / - 8 / 0.854	- 1 -	6 6 8	6 / 0.4 6 / 0.4 8 / 0.8
FY 20° FY 20° FY 20° FY 20°	17 18 19 20 21						0 /0 0 /0 0 /0 0 /0	0.000 0.000 0.000 0.000	- 1 - - 1 - - 1 -		-	- - - -	1 - 1 - 1 - 1 -	- 1 - - 1 - - 1 -	- - -	- 1 - - 1 - - 1 -	- 1 - - 1 - - 1 -	6 / 0.443 - / - - / - - / -	- / - 6/0.45 - / -	- / - 2 - / - 8 / 0.854 - / -	- 1 - - 1 - - 1 - - 1 -	6 6 8	6 / 0.4 6 / 0.4 8 / 0.8 - /
FY 20° FY 20°	17 18 19 20 21						0 /0 0 /0 0 /0 0 /0	0.000 0.000 0.000 0.000 0.000	- / - - / -		- <i>I</i> - - <i>I</i> -	- - - -	1 - 1 - 1 -	- I - - I -	- - -	- <i>I</i> - - <i>I</i> -	- 1 - - 1 - - 1 -	6 / 0.443 - / - - / -	- / - 6/0.45 - / -	2 - 1 - 8 / 0.854 - / -	- I - - I - - I - - I -	6 6 8 -	6 / 0.4 6 / 0.4 8 / 0.8 - /
FY 20° FY 20° FY 20° To Cor Total	17 18 19 20 21	Sched	lule				0 /0 0 /0 0 /0 0 /0	0.000 0.000 0.000 0.000 0.000	- I - - I - - I - - I -		-	- - - -	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	- 1 - - 1 - - 1 - - 1 -	- - -	- I - - I - - I - - I -	- I - - I - - I - - I -	6 / 0.443 - / - - / - - / - - / -	- / - 6 / 0.45 - / - - / -	2 - 1 - 8 / 0.854 - / -	- I - - I - - I - - I -	6 6 8 -	6 / 0.4 6 / 0.4 8 / 0.8 - /
FY 20° FY 20° FY 20° To Cor Total	17 18 19 20 21 mplete	Sched		2015			0 /0 0 /0 0 /0 0 /0 0 /0	0.000 0.000 0.000 0.000 0.000	- I - - I - - I - - I -		-	- - - -	-	- 1 - - 1 - - 1 - - 1 -	-	- I - - I - - I - - I -	- I - - I - - I - - I -	6 / 0.443 - / - - / - - / - - / - 6 / 0.443	- / - 6 / 0.45 - / - - / -	- / - 2 - / - 8 / 0.854 - / - 2 8 / 0.854	- I - - I - - I - - I -	6 6 8 -	6 / 0.4 6 / 0.4 8 / 0.8 - /
FY 20° FY 20° FY 20° To Cor Total	17 18 19 20 21 mplete	Sched		2015 Q3	Q4	Q1	0 /0 0 /0 0 /0 0 /0 0 /0	0.000 0.000 0.000 0.000 0.000 0.000	- 1 1 1 1 1 1 -		-	- - - -	-	- / / / / / / / / -	-	- / - - / - - / - - / - - / - 6 / 0.497	- / / / / / / - 6 / 0.434	6 / 0.443 - / - - / - - / - - / - 6 / 0.443	- / - 6 / 0.45 - / - / - / - / - / - / - 6 / 0.45 FY 2020	- / - 2 - / - 8 / 0.854 - / - 2 8 / 0.854	- - - - - - - - - -	6 8 39	6 / 0.4 6 / 0.4 8 / 0.8 - / - / 9 / 3.1
FY 20° FY 20° FY 20° To Cor Total	17 18 19 20 21 mplete		FY		Q4 -	Q1 _	0 /0 0 /0 0 /0 0 /0 0 /0 0 /0	0.000 0.000 0.000 0.000 0.000 0.000 0.000	- 1 1 1 1 1 1 -	FY	-	- - - - - - 6	-	- / / / / / / / / - 2 / 2018		- / - - / - - / - - / - - / - 6 / 0.497	- / / / / / / - 6 / 0.434	6 / 0.443 - / - - / - - / - - / - 6 / 0.443	- / - 6 / 0.45 - / - / - / - / - / - / - 6 / 0.45 FY 2020	- / - 2 - / - 8 / 0.854 - / - 2 8 / 0.854	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	6 8 39	6 / 0.4 6 / 0.4 8 / 0.8 - / - / 9 / 3.1

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

C67501 / HIMARS Modifications

Modifications

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210600A, 0603778A,

0210602A

Line Item MDAP/MAIS Code: N/A

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

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

Line Item MDAP/MAIS Code: N/A	Item MD	AP/IVIAIS Cod	ie(s): N/A									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	220.289	6.008	3.148	1.847	-	1.847	9.566	10.456	12.768	6.320	204.749	475.151
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	220.289	6.008	3.148	1.847	-	1.847	9.566	10.456	12.768	6.320	204.749	475.151
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	220.289	6.008	3.148	1.847	-	1.847	9.566	10.456	12.768	6.320	204.749	475.151
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	73.880	-	73.880	-	-	-	-	-	559.001

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, Enhanced Command and Control (C2), decrease Operations and Support costs, reduce logistical impacts, resolve safety issues, and mitigate obsolescence.

				FY 2017	FY 2017	FY 2017				
Seconda	ary Distribution	FY 2015	FY 2016	Base	ОСО	Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.485	1.008	0.356	-	0.356	4.256	4.704	7.164	4.106
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.523	2.140	1.491	-	1.491	5.310	5.752	5.604	2.214
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	6.008	3.148	1.847	-	1.847	9.566	10.456	12.768	6.320

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:

C67501 / HIMARS Modifications

Modifications

Other Related Program Elements: 0210600A, 0603778A, 0210602A

P-1 Line #20

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

Program Elements for Code B Items: N/A

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	C67501 / HIMARS Modifications (Operational, Reliability, Safety, Crew Survivability)			- / 220.289	- /6.008	- /3.148	- / 1.847	- / -	- / 1.847
P-40	Total Gross/Weapon System Cost			- / 220.289	- / 6.008	- / 3.148	- / 1.847	- 1 -	- / 1.847
	Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-3a	C67501 / HIMARS Modifications (Operational, Reliability, Safety, Crew Survivability)			- / 9.566	- / 10.456	- /12.768	- /6.320	- /204.749	- / 475.151
P-40	Total Gross/Weapon System Cost		- / 9.566	- / 10.456	- /12.768	- / 6.320	- / 204.749	- / 475.151	

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

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

Justification:

FY 2017 Base procurement dollars in the amount of \$1.847 million will procure and install Enhanced Command and Control (C2) and continue Obsolescence Mitigation/Engineering Change Proposal Integration that supports updates or changes for hardware and software required to support launcher upgrades such as software modification efforts to address obsolescence, upgrades to platform trainers, transparent armor protection and suspension improvements.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-3a, Individual Modification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
2032A / 03 / 10	C67501 / HIMARS Modifications	C67501 / HIMARS Modifications

2032A 1 03 1 10			00	130111111117	ii vo iviouiilo	alions			C07301	/ I IIIVIAI (S	13 Modifications		
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	220.289	6.008	3.148	1.847	-	1.847	9.566	10.456	12.768	6.320	204.749	475.151	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	220.289	6.008	3.148	1.847	-	1.847	9.566	10.456	12.768	6.320	204.749	475.151	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	220.289	6.008	3.148	1.847	-	1.847	9.566	10.456	12.768	6.320	204.749	475.151	
(The following	Resource Sumi	mary rows are fo	r informational _l	ourposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)	•				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	73.880	-	73.880	-	-	-	-	-	559.001	

Description:

The M142 HIMARS is a C-130 transportable launcher mounted on a Family of Medium Tactical Vehicles Chassis. The HIMARS is capable of firing either six MLRS Family of Munitions rockets or one ATACMS Family of Munitions missile to a range of 300 kilometers. The Enhanced Command and Control (C2) effort will continue training and fielding of the government developed Fire Control System software that replaces the obsolete contractor software enabling the M142 to continue supporting improvements to the MLRS and ATACMS Family of Munitions. The Reliability Obsolescence Mitigation continues to support effort to mitigate obsolescence issues, address system issues from the field and support the upgrades of trainers.

Second	dary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.485	1.008	0.356	-	0.356	4.256	4.704	7.164	4.106
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.523	2.140	1.491	-	1.491	5.310	5.752	5.604	2.214
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	6.008	3.148	1.847	-	1.847	9.566	10.456	12.768	6.320

Exhibit P-3a, Individual Modification: P	B 2017 Arm	ıv							Date: Feb	ruary 2016		
		-	D 4 Line !	tom Nives	or / Title:					ion Numbe		
Appropriation / Budget Activity / Budget 2032A / 03 / 10	et Sub Acti	vity: 		tem Numb HIMARS M		s				HIMARS M		s
Models of Systems Affected: M142 Hig Artillery Rocket System	h Mobility		cation Typ Survivability	•	onal, Relia	bility, Safet	ry, Re	elated RDT	&E PEs:			
· · · · · · · · · · · · · · · · · · ·	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ I										
Procurement												
Modification Item 1 of 3: Enhanced Command and Control (C2)												
A Kits												
Recurring											_	
Equipment	66 / 38.395	59 / -	32 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	157 / 38.3
Subtotal: Recurring	- /38.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /38.3
Subtotal: Enhanced Command and Control (C2)	66 / 38.395	59 / -	32 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	157 / 38.3
Modification Item 2 of 3: Increased Crew Protection (ICP) Cab												
A Kits												
Recurring												
Kit Quantity	39 / 67.052	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	39 / 67.0
Subtotal: Recurring	- /67.052	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /67.0
Subtotal: Increased Crew Protection (ICP) Cab	39 / 67.052	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 67.0
Modification Item 3 of 3: Reliability Obsolescence Mitigation (MOD 4)												
A Kits												
Recurring												
Equipment	66 / 106.480	- /5.322	- 12.475	25 / 1.672	- 1 -	25 / 1.672	37 <i>l</i> 9.371	33 / 10.241	40 / 12.533	16 / 6.206	- 1 -	217 / 154.3
Subtotal: Recurring	- /106.480	- /5.322	- /2.475	- /1.672	- / -	- /1.672	- /9.371	- /10.241	- /12.533	- /6.206	- / -	- /154.3
Subtotal: Reliability Obsolescence Mitigation (MOD 4)	66 / 106.480	- /5.322	- /2.475	25 / 1.672	- / -	25 / 1.672	37 / 9.371	33 / 10.241	40 / 12.533	16 / 6.206	- / -	217 / 154.3
Subtotal: Procurement, All Modification Items	171 / 211.927	59 / 5.322	32 / 2.475	25 / 1.672	- / -	25 / 1.672	37 / 9.371	33 / 10.241	40 / 12.533	16 / 6.206	- / -	413 / 259.7
Installation												
Modification Item 1 of 3: Enhanced Command and Control (C2)	66 / 1.054	59 / 0.559	32 / 0.559	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /36.650	157 / 38.8
Modification Item 2 of 3: Increased Crew Protection (ICP) Cab	39 / 7.133	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /69.000	39 / 76.1
Modification Item 3 of 3: Reliability Obsolescence Mitigation (MOD 4)	66 / 0.175	127 <i>l</i> 0.127	127 / 0.114	175 / 0.175	- 1 -	175 / 0.175	200 / 0.195	120 / 0.215	120 / 0.235	135 / 0.114	- /99.099	1,070 / 100.4
Subtotal: Installation	171 / 8.362	186 / 0.686	159 / 0.673	175 / 0.175	- / -	175 / 0.175	200 / 0.195	120 / 0.215	120 / 0.235	135 / 0.114	- /204.749	1,266 / 215.4
Total												

LI C67501 - HIMARS Modifications Army

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	ebruary 2016
2032A 7 03 7 10 C0730 1 7 1 IIIVIANS IVIOUIIICATIONS	ation Number / Title: / HIMARS Modifications

Models of Systems Affected: M142 High Mobility

Modification Type: Operational, Reliability, Safety,

Related RDT&E PEs:

Artillery Rocket System Crew Survivability

i i i i i i i i i i i i i i i i i i i				,								
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)											
Total Cost (Procurement + Support + Installation)	220.289	6.008	3.148	1.847	-	1.847	9.566	10.456	12.768	6.320	204.749	475.151

LI C67501 - HIMARS Modifications Army

Exhibit P-3a, Indi	vidual Modification: P	B 2017 Army				Date: February 2016	3
Appropriation / B 2032A / 03 / 10	udget Activity / Budge	et Sub Activity:	P-1 Line Item Nui C67501 / HIMARS			Modification Numb C67501 / HIMARS N	
Modification Item 1 of	f 3: Enhanced Command and	Control (C2)	·				
Manufacturer Informa	ition						
Manufacturer Name: G	overnment Enhancement Te	am		Manufacturer Location:	ГВD		
Administrative Leadtim	e (in Months): 3			Production Leadtime (in	Months): 9		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Organic

medica en imprementation organi	•											
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	31 / 0.508	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	31 / 0.508
FY 2015	35 / 0.546	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	35 / 0.546
FY 2016	0 / 0.000	59 / 0.559	32 / 0.559	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	91 / 1.118
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /36.650	- / 36.650
Total	66 / 1.054	59 / 0.559	32 / 0.559	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /36.650	157 / 38.822

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			FY 2	2021			
	PYS	Q1	Q2	Q3	Q4	тс	Tot																								
In	375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	375
Out	245	19	38	38	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	375

LI C67501 - HIMARS Modifications

Army

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Exhibit P-3a, Indivi	dual Modification: P	B 2017 Army				Date: February 201	6
Appropriation / Bu 2032A / 03 / 10	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nui C67501 / HIMARS			Modification Numb	
Modification Item 2 of 3	: Increased Crew Protection	n (ICP) Cab	·				
Manufacturer Information	on						
Manufacturer Name: TBD)			Manufacturer Location:	ГВD		
Administrative Leadtime	(in Months): 3			Production Leadtime (in	Months): 9		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: TBD

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	39 / 7.133	- / 0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	39 / 7.133
FY 2015	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /69.000	- / 69.000
Total	39 / 7.133	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /69.000	39 / 76.133

Installation Schedule

		FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021					
	PYS	Q1	Q2	Q3	Q4	TC	Tot																								
In	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	222
Out	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	222

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Exhibit P-3a, Individual Modification: PB 2017 Army			Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Numb		Modification Number / Title: C67501 / HIMARS Modifications									
Modification Item 3 of 3: Reliability Obsolescence Mitigation (MOD 4)	Modification Item 3 of 3: Reliability Obsolescence Mitigation (MOD 4)											
Manufacturer Information												
Manufacturer Name: Government Obsolescence Team		Manufacturer Location: TBD										
Administrative Leadtime (in Months): 3		Production Leadtime (in Months): 9										

,	<u>'</u>			` ·	<u>'</u>		
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates			Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: Organic

	.	E)/ 004E	E)/ 00/10	FY 2017	FY 2017	FY 2017	E)/ 00/0	E)/ 00/10	E)/ 0000	E)/ 0004	То	
	Prior Years	FY 2015	FY 2016	Base	oco	Total	FY 2018	FY 2019	FY 2020	FY 2021	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	18 / 0.048	- /0.000	- / 0.000	- / 0.000	- 1 -	- /0.000	- /0.000	- / 0.000	- / 0.000	- / 0.000	- /0.000	18 / 0.048
FY 2015	48 / 0.127	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	48 / 0.127
FY 2016	0 / 0.000	127 / 0.127	127 / 0.114	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	254 / 0.241
FY 2017	0 / 0.000	- 1 -	- 1 -	175 / 0.175	- 1 -	175 / 0.175	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	175 / 0.175
FY 2018	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	200 / 0.195	- 1 -	- 1 -	- 1 -	- 1 -	200 / 0.195
FY 2019	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	120 / 0.215	- 1 -	- 1 -	- 1 -	120 / 0.215
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	120 / 0.235	- 1 -	- 1 -	120 / 0.235
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	135 / 0.114	- 1 -	135 / 0.114
To Complete	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /99.099	- / 99.099
Total	66 / 0.175	127 / 0.127	127 / 0.114	175 / 0.175	- 1 -	175 / 0.175	200 / 0.195	120 / 0.215	120 / 0.235	135 / 0.114	- /99.099	1.070 / 100.449

Installation Schedule

			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020		_	FY 2	021			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	375	-	-	-	-	-	-	-	-	175	-	-	-	200	-	-	-	120	-	-	-	120	-	-	-	135	-	-	-	-	1,125
Out	175	19	38	38	32	38	35	-	-	50	50	50	25	50	50	50	50	30	30	30	30	30	30	30	30	30	30	30	45	-	1,125

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 04: 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: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

	1.00111		-(-)									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	242.583	36.930	33.778	34.487	-	34.487	19.217	28.269	26.679	5.141	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	242.583	36.930	33.778	34.487	-	34.487	19.217	28.269	26.679	5.141	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	242.583	36.930	33.778	34.487	-	34.487	19.217	28.269	26.679	5.141	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)	!			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	8,621.750	-	8,621.750	-	-	-	-	Continuing	Continuing

Description:

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

Seconda	ary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	36.930	33.552	34.361	-	34.361	19.141	28.193	26.679	5.141
ANG	Quantity	-	-	-	-	-	-	-	-	=
	Total Obligation Authority	-	0.226	0.126	-	0.126	0.076	0.076	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	36.930	33.778	34.487	-	34.487	19.217	28.269	26.679	5.141

LI CA0250 - Spares And Repair Parts Army

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 04: Spares and Repair Parts / BSA 10:

CA0250 / Spares And Repair Parts

Spares And Repair Parts

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-40a	CA0265 / MLRS MODIFICATION INITIAL SPARES			- / 26.265	- / -	- / 1.058	- / 0.476	- / -	- / 0.476
P-40a	CA0267 / PATRIOT MODIFICATION INITIAL SPARES			- / 216.318	- / 36.930	- /32.720	- /34.011	- / -	- / 34.011
P-40	Total Gross/Weapon System Cost			- / 242.583	- / 36.930	- / 33.778	- / 34.487	- 1 -	- / 34.487

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

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

Justification:

FY2017 base procurement dollars in the amount of \$34.487 million supports the continuing acquisition of MLRS Modification and Patriot Modification Initial Spares. The funds in this account procure depot level repairable (DLR) secondary items from Supply Management, Army activities 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.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 04 / 10

Date: February 2016

Aggregated Items Title:

CA0250 / Spares And Repair Parts

Various

2032A / 04 / 10							JA0230	<i>i</i> Opares	Andrice	pali i ai	ıs			v	arious				
			Prior Year	rs		FY 2015			FY 2016	,	FY	′ 2017 Ba	se	F	Y 2017 OC	o	FY	2017 To	tal
Item Number / Title [DODIC]	ID MA	S Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
MLRS MODIFICATION INI	TIAL SPA	RES																	
CA0265 / MLRS MODIFICATION INITIAL SPARES		-	-	26.265	-	-	-	-	-	1.058	-	-	0.476	-	-	-	-	-	0.476
Secondary Distribution																			
Army			-	-		-	-		-	0.832		-	0.350		-	-		-	0.350
ANG			-	-		-	-		-	0.226		-	0.126		-	-		-	0.126
CA0267 / PATRIOT MODIFICATION INITIAL SPARES		-	-	216.318	-	-	36.930	-	-	32.720	-	-	34.011	-	-	-	-	-	34.01
Secondary Distribution	,				•					,	`					•			
Army			-	-		-	36.930		-	32.720		-	34.011		-	-		-	34.011
Subtotal: MLRS MODIFIC INITIAL SPARES	ATION	-	-	242.583	-	-	36.930	-	-	33.778	-	-	34.487	-	-	-	-	-	34.48
Total		-	-	242.583	-	-	36.930	-	-	33.778	-	-	34.487	-	-	-	-	-	34.487

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

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA | C93000 / Air Defense Targets

10: Support Equipment & Facilities

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

ID Code (A=Service Ready, B=Not Service Ready): Line Hom MDAD/MAIC Code: NI/A

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	le(s): N/A									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	426.653	3.657	3.717	4.915	-	4.915	4.941	5.658	5.689	5.791	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	426.653	3.657	3.717	4.915	-	4.915	4.941	5.658	5.689	5.791	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	426.653	3.657	3.717	4.915	-	4.915	4.941	5.658	5.689	5.791	Continuing	Continuing
(The following	Resource Sumr	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	14.124	-	14.124	-	-	-	-	Continuing	Continuing

Description:

Air Defense Artillery (ADA) Targets program procures target hardware and associated training services to include scoring, payload, and ground support equipment to enable 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. Target systems are also available to support collective training exercises and Force Development Testing and Experimentation (FDT&E) investigations of engagement techniques for small unmanned aircraft systems.

Secondar	ry Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.657	3.717	4.915	-	4.915	4.941	5.658	5.689	5.791
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	3.657	3.717	4.915	-	4.915	4.941	5.658	5.689	5.791

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 05: Support Equipment 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 Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits CD	Quantity / Total Cost (Each) / (\$ M)					
P-5	C93000 / Air Defense Targets	P-5a	- / 426.653	- / 3.657	- / 3.717	- / 4.915	- / -	- / 4.915
P-40	Total Gross/Weapon System Cost		- / 426.653	- / 3.657	- / 3.717	- / 4.915	- 1 -	- / 4.915

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

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

Justification:

FY 2017 Base procurement dollars in the amount of \$4.915 million supports Air Defense Artillery Targets and scoring, payload, and ground support equipment for 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)5.56) training, Missile Live Fire training when missiles are allocated in accordance with (IAW) the Missile Distribution Plan), and U.S. Army Avenger systems worldwide. Training requirements are generated by Department of the Army Major Field Commands, Training Centers, Division Level Commands, and real world mission rehearsals. These field requirements have been reviewed and validated against ongoing force restructuring and are consistent with the approved training doctrine. These targets are necessary to meet Army Regulation 220-1 (Unit Status Reporting) training requirements, training strategies and gunnery standards, and soldier gualification in support of unit readiness.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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LI C93000 - Air Defense Targets Army

Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A / 05 / 10

Date: February 2016

Item Number / Title [DODIC]:
C93000 / Air Defense Targets

C93000 / Air Defense Targets

ID Code (A=Service Ready, B=Not Service Ready):		MD	AP/MAIS Code:			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	426.653	3.657	3.717	4.915	-	4.915
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	426.653	3.657	3.717	4.915	-	4.915
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	426.653	3.657	3.717	4.915	-	4.915
(The following Resource Summary rows are for informa	tional purposes only. The corre	esponding budget requests	are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	_	_	14 124	_	14 124

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	S		FY 2015			FY 2016		FY	′ 2017 Bas	e	F	/ 2017 OC	0	FY	/ 2017 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	'		'				'			'	'				'	'	'	
Recurring Cost	_																	
Remotely Piloted Vehicle Target (RPVT) ^(†)	-	-	426.653	-	-	3.657	_	-	3.717	5.846	348	2.034	-	-	-	5.846	348	2.03
Infrared Kit Payload ^(†)	-	-	-	-	-	-	-	-	-	0.278	348	0.097	-	-	-	0.278	348	0.09
Launcher ^(†)	-	-	-	-	-	-	-	-	-	26.301	4	0.105	-	-	-	26.301	4	0.10
Manual Navigation GCS ^(†)	-	-	-	-	-	-	-	-	-	10.081	12	0.121	-	-	-	10.081	12	0.12
BVR Navigation GCS ^(†)	-	-	-	-	-	-	-	-	-	26.221	2	0.052	-	-	-	26.221	2	0.05
BVR Payload ^(†)	-	-	-	-	-	-	-	-	-	11.658	4	0.047	-	-	-	11.658	4	0.04
Acoustic Scoring Payload ^(†)	-	-	-	-	-	-	-	-	-	12.905	45	0.581	-	-	-	12.905	45	0.58
Acoustic Scoring GCS ^(†)	-	-	-	-	-	-	-	-	-	42.220	4	0.169	-	-	-	42.220	4	0.16
Radar Scoring Payload ^(†)	-	-	-	-	-	-	-	-	-	13.610	45	0.612	-	-	-	13.610	45	0.61
Radar Scoring GCS ^(†)	-	-	-	-	-	-	-	-	-	14.169	5	0.071	-	-	-	14.169	5	0.07
RPVT Lighting Kit Payload ^(†)	-	-	-	-	-	-	-	-	-	0.283	41	0.012	-	-	-	0.283	41	0.01
Program Management Support	-	-	-	-	-	-	-	-	-	1,014.382	1	1.014	-	-	-	1,014.382	1	1.01

LI C93000 - Air Defense Targets Army

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 05 / 10

Date: February 2016

Item Number / Title [DODIC]:

C93000 / Air Defense Targets

C93000 / Air Defense Targets

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

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Trote. Oubtotals of Totals I	II tilis Extilbit	ci o iliay lic	or be exact e	JI Julii Chact	y duc to rou	nung.												
	F	Prior Years	S		FY 2015			FY 2016	_	F	′ 2017 Ba	se	F'	Y 2017 OC	0	F`	Y 2017 Tot	:al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Recurring Cost	-	-	426.653	-	-	3.657	-	-	3.717	-	-	4.915	-	-	-	-	-	4.915
Subtotal: Flyaway Cost	-	-	426.653	-	-	3.657	-	-	3.717	-	-	4.915	-	-	-	-	-	4.915
Gross/Weapon System Cost	-	-	426.653	-	-	3.657	-	-	3.717	14.124	-	4.915	-	-	-	14.124	-	4.915

Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	3.657	3.717	4.915	-	4.915
Total:	Quantity	-	-	=	=	-
Secondary Distribution	Total Obligation Authority	3.657	3.717	4.915	-	4.915

^(†) indicates the presence of a P-5a

LI C93000 - Air Defense Targets Army

Exhibit P-5a, Procurement History and Planning: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A / 05 / 10

Date: February 2016

Item Number / Title [DODIC]:
C93000 / Air Defense Targets

C93000 / Air Defense Targets

	0			Method/Type or		Award	Date of First	054	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	o	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	Qty (Each)	(\$ K)	Now?		Date
Remotely Piloted Vehicle Target (RPVT)		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	348	5.846	Y		
Infrared Kit Payload		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	348	0.278	Υ		
Launcher		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	4	26.301	Y		
Manual Navigation GCS		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	12	10.081	Υ		
BVR Navigation GCS		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	2	26.221	Υ		
BVR Payload		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	4	11.658	Υ		
Acoustic Scoring Payload		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	45	12.905	Y		
Acoustic Scoring GCS		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	4	42.220	Y		
Radar Scoring Payload		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	45	13.610	Υ		
Radar Scoring GCS		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	5	14.169	Υ		
RPVT Lighting Kit Payload		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	41	0.283	Υ		

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 05: 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: N/A

Other Related Program Elements: N/A

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

Line item widar/wais code. N/A	Item Nib	AP/IVIAIS COU	ie(5). IV/A									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	51.201	1.522	1.544	-	-	-	-	-	-	-	-	54.267
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	51.201	1.522	1.544	-	-	-	-	-	-	-	-	54.267
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	51.201	1.522	1.544	-	-	-	-	-	-	-	-	54.267
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. T	he corresponding	g budget reques	ts are documente	ed elsewhere.)	•			
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. 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 required to build new toolkits and shop sets and replenish unserviceable toolkits and shop sets.

Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.522	1.544	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	1.522	1.544	-	-	-	-	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 05: 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: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-5	CL2000 / Items Less Than \$5.0m (Missiles)			- / 51.201	- / 1.522	- / 1.544	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 51.201	- /1.522	- / 1.544	- 1 -	- 1 -	- 1 -

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

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

Justification:

No FY17 Funding requirement

Exhibit P-5, Cost Analysis: PB 2017 Army				Dat	e: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10		n Number / Title: ns Less Than \$5.0r	m (Missiles)	CL2	n Number / Title [D 2000 / Items Less Ti ssiles)	
ID Code (A=Service Ready, B=Not Service Ready):	1	MDA	AP/MAIS Code:	-		
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	51.201	1.522	1.544	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	51.201	1.522	1.544	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	51.201	1.522	1.544	-	-	-
(The following Resource Summary rows are for information	al purposes only. The corres	sponding budget requests a	re documented elsewhere	e. <i>)</i>		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Troto: Cubtotalo ol Totalo l							,		-				,		_	,		
	F	Prior Years	s		FY 2015			FY 2016		F	1 2017 Ba	se	F	/ 2017 OC	0	F'	Y 2017 Tot	:al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
Flyaway Cost																		
Recurring Cost																		
Shop Sets / Tools	-	-	51.201	-	-	1.522	-	-	1.544	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	51.201	-	-	1.522	-	-	1.544	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	51.201	-	-	1.522	-	-	1.544	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	51.201	-	-	1.522	-	-	1.544	-	-	-	-	-	-	-	-	-

Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	1.522	1.544	-	-	-
Total:	Quantity	-	-	-	=	-
Secondary Distribution	Total Obligation Authority	1.522	1.544	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA CA0100 / Production Base Support

10: Support Equipment & Facilities ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Date: February 2016

Line Item MDAP/MAIS Code: N/A

Itom MDAD/MAIS Codo(s): NI/A

Line Item MDAP/MAIS Code: N/A	Item MD	AP/MAIS Cod	le(s): N/A									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	364.283	4.710	4.704	1.154	-	1.154	1.189	1.212	1.087	1.047	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	364.283	4.710	4.704	1.154	-	1.154	1.189	1.212	1.087	1.047	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	364.283	4.710	4.704	1.154	-	1.154	1.189	1.212	1.087	1.047	Continuing	Continuing
(The following	Resource Sumr	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request.	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	

Description:

This program establishes, modernizes, expands or replaces test facilities used in production testing of missiles and missile components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers.

Secondar	y Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.710	4.704	1.154	-	1.154	1.189	1.212	1.087	1.047
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	4.710	4.704	1.154	-	1.154	1.189	1.212	1.087	1.047

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

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA | CA0100 / Production Base Support

10: Support Equipment & Facilities ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)						
P-40a	CA4002 / PIF FOR OTHER			- / 364.283	- /4.710	- / 4.704	- / 1.154	- / -	- / 1.154	
P-40	Total Gross/Weapon System Cost			- / 364.283	- /4.710	- / 4.704	- / 1.154	- 1 -	- / 1.154	

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

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

Justification:

FY 2017 Base procurement dollars in the amount of \$1.154 million support upgrades or replacement of production test instrumentation and equipment at the White Sands Test Center (WSTC), White Sands Missile Range, NM and Redstone Test Center (RTC), Huntsville, AL.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Army Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Aggregated Items Title:					
2032A / 05 / 10	CA0100 / Production Base Support	Various					

			Prior Years			FY 2015		FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total			
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
PIF FOR OTHER	PIF FOR OTHER																			
CA4002 / PIF FOR OTHER			-	-	364.283	-	-	4.710	-	-	4.704	-	-	1.154	-	-	-	-	-	1.154
Secondary Distribution	Secondary Distribution																			
Army				-	-		-	4.710		-	4.704		-	1.154		-	-		-	1.154
Subtotal: PIF FOR OTHE	R		-	-	364.283	-	-	4.710	-	-	4.704	-	-	1.154	-	-	-	-	-	1.154
Total			-	-	364.283	-	-	4.710	-	-	4.704	-	-	1.154	-	-	-	-	-	1.154

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