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**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 Title	Line Item Number	Line #	BA	BSA	Page
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Department of the Army  
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 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

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Department of the Army  
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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

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Department of the Army  
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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  
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(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



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11 Jan 2016

Appropriation: 2032A Missile Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO) Quantity Cost	FY 2016 Base Enacted Quantity Cost	FY 2016 OCO Enacted Quantity Cost	FY 2016 Total Enacted Quantity Cost	S e c
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)						U
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 MsIs (JAGM) Less: Advance Procurement (PY)						U U
6	Joint Air-To-Ground MsIs (JAGM) Advance Procurement (CY)			27,738		27,738	U
Anti-Tank/Assault Missile Sys							
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)	A	1008 (50,368)	1704 (107,509) (-19,984)		1704 (107,509) (-19,984)	U 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

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Appropriation: 2032A Missile Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Base Quantity	Cost	FY 2017 OCO Quantity	Cost	FY 2017 Total Quantity	Cost	S e c
Budget Activity 02: Other Missiles									
Surface-to-Air Missile System									
1	Lower Tier Air and Missile Defense (AMD)	A		126,470			126,470		U
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		U
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 MsIs (JAGM) Less: Advance Procurement (PY)		324	(92,489) (-27,738)			324	(92,489) (-27,738)	U U
				64,751				64,751	
6	Joint Air-To-Ground MsIs (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 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	U

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Appropriation: 2032A Missile Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO) Quantity Cost	FY 2016 Base Enacted Quantity Cost	FY 2016 OCO Enacted Quantity Cost	FY 2016 Total Enacted Quantity Cost	S e c
12	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	A					U
Total Other Missiles			967,141	1,209,910	37,260	1,247,170	
Budget Activity 03: Modification of Missiles							
Modifications							
13	Patriot Mods		183,838	241,883		241,883	U
14	ATACMS MODS	A		20,119		20,119	U
15	GMLRS MOD	A		18,221		18,221	U
16	Stinger Mods		1,355	2,216		2,216	U
17	Avenger Mods		5,611	6,171		6,171	U
18	Itas/Tow Mods		19,676	19,576		19,576	U
19	MLRS Mods		10,380	35,970		35,970	U
20	Himars Modifications		6,008	3,148		3,148	U
Total Modification of Missiles			226,868	347,304		347,304	
Budget Activity 04: Spares and Repair Parts							
Spares and Repair Parts							
21	Spares and Repair Parts		36,930	33,778		33,778	U
Total Spares and Repair Parts			36,930	33,778		33,778	
Budget Activity 05: Support Equipment and Facilities							
Support Equipment & Facilities							
22	Air Defense Targets		3,657	3,717		3,717	U

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Appropriation: 2032A Missile Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Base Quantity	FY 2017 Base Cost	FY 2017 OCO Quantity	FY 2017 OCO Cost	FY 2017 Total Quantity	FY 2017 Total Cost	Se
12	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	A			10	4,777	10	4,777	U
Total Other Missiles				1,061,325		632,817		1,694,142	
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	U
Total Modification of Missiles				418,085				418,085	
Budget Activity 04: Spares and Repair Parts									
Spares and Repair Parts									
21	Spares and Repair Parts			34,487				34,487	U
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

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

11 Jan 2016

Appropriation: 2032A Missile Procurement, Army

Line	Ident	FY 2015	FY 2016	FY 2016	FY 2016	S
No	Code	(Base & OCO)	Base Enacted	OCO Enacted	Total Enacted	e
		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	U
	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	

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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 No	Item Nomenclature	Ident Code	FY 2017 Base Quantity	Cost	FY 2017 OCO Quantity	Cost	FY 2017 Total Quantity	Cost	S e 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		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System							<b>P-1 Line Item Number / Title:</b> C50016 / Lower Tier Air and Missile Defense (AMD)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	110.300	115.075	126.470	-	126.470	112.888	122.768	150.444	120.542	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	110.300	115.075	126.470	-	126.470	112.888	122.768	150.444	120.542	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>110.300</b>	<b>115.075</b>	<b>126.470</b>	-	<b>126.470</b>	<b>112.888</b>	<b>122.768</b>	<b>150.444</b>	<b>120.542</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**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: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System					P-1 Line Item Number / Title: C50016 / Lower Tier Air and Missile Defense (AMD)					
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								
Secondary 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: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	110.300	115.075	126.470	-	126.470	112.888	122.768	150.444	120.542



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System					<b>P-1 Line Item Number / Title:</b> C50016 / Lower Tier Air and Missile Defense (AMD)				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C50016 / Lower Tier Air and Missile Defense (AMD)			- / -	- / 110.300	- / 115.075	- / 126.470	- / -	- / 126.470
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / 110.300</b>	<b>- / 115.075</b>	<b>- / 126.470</b>	<b>- / -</b>	<b>- / 126.470</b>
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									

**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 Analysis: PB 2017 Army											Date: February 2016								
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10						P-1 Line Item Number / Title: C50016 / Lower Tier Air and Missile Defense (AMD)						Item Number / Title [DODIC]: C50016 / Lower Tier Air and Missile Defense (AMD)							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/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)				-		110.300		115.075		126.470		-		126.470					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				-		110.300		115.075		126.470		-		126.470					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				-		110.300		115.075		126.470		-		126.470					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements		Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
Field Surveillance Program		-	-	-	-	-	15.000	-	-	15.000	-	-	16.500	-	-	-	-	-	16.500
P3MSC		-	-	-	-	-	6.400	-	-	5.500	-	-	10.500	-	-	-	-	-	10.500
International Engr Services Program		-	-	-	-	-	55.200	-	-	56.800	-	-	59.500	-	-	-	-	-	59.500
System Engineering/ Project Management		-	-	-	-	-	9.000	-	-	9.200	-	-	9.600	-	-	-	-	-	9.600
Logistics Recurring		-	-	-	-	-	24.700	-	-	28.575	-	-	30.370	-	-	-	-	-	30.370
Subtotal: Recurring Cost		-	-	-	-	-	110.300	-	-	115.075	-	-	126.470	-	-	-	-	-	126.470
Subtotal: Flyaway Cost		-	-	-	-	-	110.300	-	-	115.075	-	-	126.470	-	-	-	-	-	126.470
Gross/Weapon System Cost		-	-	-	-	-	110.300	-	-	115.075	-	-	126.470	-	-	-	-	-	126.470
Secondary Distribution							FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Army		Quantity					-		-		-		-		-				
		Total Obligation Authority					110.300		115.075		126.470		-		126.470				
		Quantity					-		-		-		-		-				
		Total Obligation Authority					110.300		115.075		126.470		-		126.470				
Total: Secondary Distribution																			

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System						<b>P-1 Line Item Number / Title:</b> C53101 / MSE Missile						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0604865A, 0603869A, 0604869A, 0605456A					
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 492										
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	92	108	112	85	-	85	93	95	95	95	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	778.722	532.605	514.946	423.201	-	423.201	459.040	497.009	529.839	520.513	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	778.722	532.605	514.946	423.201	-	423.201	459.040	497.009	529.839	520.513	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>778.722</b>	<b>532.605</b>	<b>514.946</b>	<b>423.201</b>	<b>-</b>	<b>423.201</b>	<b>459.040</b>	<b>497.009</b>	<b>529.839</b>	<b>520.513</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	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
<b>Description:</b> 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 propellant 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.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
Army	Quantity	108	112	85	-	85	93	95	95	95	95	
	Total Obligation Authority	532.605	514.946	423.201	-	423.201	459.040	497.009	529.839	520.513		
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	<b>108</b>	<b>112</b>	<b>85</b>	<b>-</b>	<b>85</b>	<b>93</b>	<b>95</b>	<b>95</b>	<b>95</b>	<b>95</b>	
	<b>Total Obligation Authority</b>	<b>532.605</b>	<b>514.946</b>	<b>423.201</b>	<b>-</b>	<b>423.201</b>	<b>459.040</b>	<b>497.009</b>	<b>529.839</b>	<b>520.513</b>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System					<b>P-1 Line Item Number / Title:</b> C53101 / MSE Missile				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0604865A, 0603869A, 0604869A, 0605456A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 492							

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)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ 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
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>92 / 778.722</b>	<b>108 / 532.605</b>	<b>112 / 514.946</b>	<b>85 / 423.201</b>	<b>- / -</b>	<b>85 / 423.201</b>

\*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:**  
 The FY 2017 base procurement dollars in the amount of \$423.201 million supports the production of 85 Missile Segment Enhancement (MSE) missiles, Field Surveillance Program (FSP), supporting equipment such as missile round trainers, empty round trainers, ancillary missile items, PAC-3 Missile Support Center (P3MSC) and Obsolescence, and System Engineering/Program Management (SE/PM).

Army Acquisition Objective (AAO) is 3376.

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.

\*Unit prices reflect an assessed yearly FMS procurement of PAC-3 missile variants. In the event FMS procurements do not occur at this level, the budgeted missile unit price may not be achievable.

\*\*Quantities will be procured at an optimized rate utilizing price advantage created through contract negotiation, FPIF contract ceiling liability reduction through price determination, other service procurement, and/or foreign military sales in a buy-to-budget procurement strategy.

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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=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code: 492									
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity <i>(Units in Each)</i>				92		108		112		85		-		85				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				778.722		532.605		514.946		423.201		-		423.201				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				778.722		532.605		514.946		423.201		-		423.201				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				778.722		532.605		514.946		423.201		-		423.201				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				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.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Missile Hardware <sup>(†)</sup>	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	362.668
Field Surveillance	-	-	25.900	-	-	2.600	-	-	2.900	-	-	5.427	-	-	-	-	-	5.427
PAC-3 Missile Support Center (P3MSC)	-	-	12.000	-	-	1.600	-	-	1.600	-	-	3.600	-	-	-	-	-	3.600
Obsolescence	-	-	20.500	-	-	18.005	-	-	16.700	-	-	10.833	-	-	-	-	-	10.833
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	-	-	-	-	-	18.600
Initial Production Facilitization	-	-	88.313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Government/Software Engineering	-	-	-	-	-	6.200	-	-	6.340	-	-	9.440	-	-	-	-	-	9.440
Sys Engrg/Proj Mgmt (SE/PM) Contractor	-	-	129.403	-	-	9.300	-	-	9.499	-	-	12.633	-	-	-	-	-	12.633
Subtotal: Recurring Cost	-	-	778.723	-	-	532.605	-	-	514.946	-	-	423.201	-	-	-	-	-	423.201
Subtotal: Flyaway Cost	-	-	778.723	-	-	532.605	-	-	514.946	-	-	423.201	-	-	-	-	-	423.201
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	423.201

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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=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code: 492		
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
Total:	Quantity	108	112	85	-	85
Secondary Distribution	Total Obligation Authority	532.605	514.946	423.201	-	423.201

(t) indicates the presence of a P-5a

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

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

<sup>(†)</sup> 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.

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Exhibit P-21, Production Schedule: 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																					
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2014										Fiscal Year 2015										B A L A N C E														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015																								
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P										
Missile Hardware																																									
	1	2014	ARMY	92	-	92						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	4	-	76							
	1	2015	ARMY	108	-	108																					A	-	-	-	-	-	-	-	-	-	-	-	-	-	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 U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P											



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Exhibit P-21, Production Schedule: 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													
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2016												Fiscal Year 2017												BALANCE					
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
Missile Hardware																																				
	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	A -				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	10	72						
	1	2017	ARMY	85	-	85													A -				-	-	-	-	-	-	-	-	-	-	-	-	-	85
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						

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Exhibit P-21, Production Schedule: 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											
Cost Elements (Units in Each)							Fiscal Year 2018										Fiscal Year 2019														BALANCE
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018										Calendar Year 2019														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Missile Hardware																															
	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						-			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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Exhibit P-21, Production Schedule: 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			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					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

"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 all quantities are shown in thousands. 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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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System	<b>P-1 Line Item Number / Title:</b> C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I
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<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> 473
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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	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	-	<b>19.319</b>	-	<b>19.319</b>	-	-	-	-	-	-

**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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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2017 Army						<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System				<b>P-1 Line Item Number / Title:</b> C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I				
<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 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)	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)
P-10	IFPC INC 2-I BLOCK 1 SYSTEM		- / -	- / -	- / -	- / 19.319	- / -	- / 19.319
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>		<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 19.319</b>	<b>- / -</b>	<b>- / 19.319</b>
<p>*Title represents the P-10 Title for Advance Procurement.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>								
<p><b>Justification:</b></p> <p>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.</p> <p>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.</p>								

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2017 Army					<b>Date:</b> February 2016	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 10		<b>P-1 Line Item Number / Title:</b> C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I			<b>Item Number / Title:</b> C62002 / IFPC INC 2-I BLOCK 1 SYSTEM	
<b>MDAP/MAIS Code:</b> 473						
<b>First System (2017) Award Date:</b> June 2017		<b>First System (2017) Completion Date:</b> July 2019		<b>Interval Between Systems:</b> 12 Months		
<b>IFPC INC 2-I BLOCK 1 SYSTEM</b>		<b>Production Leadtime</b> <i>(Months)</i>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2015</b> <i>(Each)</i>	<b>FY 2016</b> <i>(Each)</i>	<b>FY 2017</b> <i>(Each)</i>
Quantity			-	-	-	-
<b>Cost Elements</b>		<b>When Required</b> <i>(Months)</i>	<b>Prior Years</b> <i>(\$ M)</i>	<b>FY 2015</b> <i>(\$ M)</i>	<b>FY 2016</b> <i>(\$ M)</i>	<b>FY 2017</b> <i>(\$ M)</i>
<b>Other</b>						
eTalin 4000	12	-	-	-	0.651	
Weapon Interface Unit (WIU)	12	-	-	-	0.783	
Rails	12	-	-	-	10.665	
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	
<i>Total: Other</i>		-	-	-	<i>19.319</i>	
<b>Total Advance Procurement/Obligation Authority</b>		-	-	-	<b>19.319</b>	

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2017 Army					Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10		P-1 Line Item Number / Title: C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I			Item Number / Title: C62002 / IFPC INC 2-I BLOCK 1 SYSTEM		
Cost Elements	QPA (Each)	FY 2017					
		Production Leadtime (Months)	Unit Cost (\$ K)	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							

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System							<b>P-1 Line Item Number / Title:</b> C70000 / Hellfire Sys Summary					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A					<b>Other Related Program Elements:</b> 0203802A, 0210109A				
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 355										
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	63,134	262	383	155	4,055	4,210	178	165	-	-	-	68,332
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>3,535.276</b>	<b>36.588</b>	<b>65.235</b>	<b>42.013</b>	<b>455.830</b>	<b>497.843</b>	<b>41.837</b>	<b>39.838</b>	<b>3.325</b>	<b>-</b>	<b>-</b>	<b>4,219.942</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	55.996	139.649	170.326	271.052	112.412	118.252	235.039	241.442	-	-	-	61.756
<b>Description:</b> 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.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
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	-	-	-
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	<b>262</b>	<b>383</b>	<b>155</b>	<b>4,055</b>	<b>4,210</b>	<b>178</b>	<b>165</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>36.588</b>	<b>65.235</b>	<b>42.013</b>	<b>455.830</b>	<b>497.843</b>	<b>41.837</b>	<b>39.838</b>	<b>3.325</b>	<b>-</b>	<b>-</b>	<b>-</b>



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System					<b>P-1 Line Item Number / Title:</b> C70000 / Hellfire Sys Summary				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0203802A, 0210109A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 355							
<b>Exhibits Schedule</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
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
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>63,134 / 3,535.276</b>	<b>262 / 36.588</b>	<b>383 / 65.235</b>	<b>155 / 42.013</b>	<b>4,055 / 455.830</b>	<b>4,210 / 497.843</b>
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b>  FY 2017 Base procurement dollars in the amount of \$42.013 million support the procurement of 155 HELLFIRE II missiles.</p> <p>FY 2017 OCO procurement dollars in the amount of \$455.830 million supports the procurement of:</p> <ul style="list-style-type: none"> <li>- 1,422 Missiles in support of the War Reserve shortage (\$169.218M)</li> <li>- 1,148 Missiles to be replaced based on combat expenditures through June 2015 (\$136.612M)</li> </ul> <p>(includes: 323 Pre-deployment training expenditures; 189 Ongoing AFG Operations; 636 Ongoing IRQ Operations)</p> <ul style="list-style-type: none"> <li>- 1,485 Missiles FY17 Base-to-OCO Requirement (\$150.000M)</li> </ul> <p>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.</p> <p>The historical Army Acquisition Objective was 34,292.</p> <p>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.</p>									

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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: 355									
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total					
Procurement Quantity (Units in Each)				63,134		262		383		155		4,055		4,210					
Gross/Weapon System Cost (\$ in Millions)				3,535.276		36.588		65.235		42.013		455.830		497.843					
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					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				3,535.276		36.588		65.235		42.013		455.830		497.843					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Thousands)				55.996		139.649		170.326		271.052		112.412		118.252					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements		Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
All-up Rounds <sup>(†)</sup>		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	425.210
Engineering Services		-	-	112.646	-	-	1.878	-	-	3.493	-	-	1.859	-	-	8.579	-	-	10.438
Fielding		-	-	29.225	-	-	0.368	-	-	0.759	-	-	0.254	-	-	6.647	-	-	6.901
Acceptance Testing		-	-	52.275	-	-	0.066	-	-	0.136	-	-	0.046	-	-	1.189	-	-	1.235
Project Mgt Admin		-	-	75.357	-	-	5.130	-	-	5.660	-	-	4.528	-	-	9.736	-	-	14.264
Production Engineering Support		-	-	235.341	-	-	6.614	-	-	8.461	-	-	19.671	-	-	20.124	-	-	39.795
Subtotal: Recurring Cost		-	-	3,535.276	-	-	36.588	-	-	65.235	-	-	42.013	-	-	455.830	-	-	497.843
Subtotal: Flyaway Cost		-	-	3,535.276	-	-	36.588	-	-	65.235	-	-	42.013	-	-	455.830	-	-	497.843
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	497.843
Secondary Distribution																			
Army		Quantity					262		383		155		4,055		4,210				
		Total Obligation Authority					36.588		65.235		42.013		455.830		497.843				
Total: Secondary Distribution		Quantity					262		383		155		4,055		4,210				
		Total Obligation Authority					36.588		65.235		42.013		455.830		497.843				

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 20	<b>P-1 Line Item Number / Title:</b> C70000 / Hellfire Sys Summary	<b>Item Number / Title [DODIC]:</b> C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b> 355
<div>(†) indicates the presence of a P-5a</div>		

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

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

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

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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Exhibit P-21, Production Schedule: 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)																	
Cost Elements (Units in Each)							Fiscal Year 2015													Fiscal Year 2016													B A L A N C E				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																	
							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 Rounds																																					
Prior Years Deliveries: 63134																																					
	1	2015	ARMY	262	-	262														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	262	
	1	2015	FMS (‡)	2,692	-	2,692														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,692
	1	2015	AF (‡)	4,000	-	4,000														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,000
	1	2015	Total	6,954	-	6,954														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,954
	1	2016	ARMY (I)	113	-	113																											113				
	1	2016	FMS (‡) (II)	1,332	-	1,332																											1,332				
	1	2016	AF (‡)	5,567	-	5,567																											5,567				
	1	2016	Total	7,012	-	7,012																											7,012				
	2	2016	ARMY (V)	270	-	270																											270				
	1	2017	ARMY (III)	155	-	155																											155				
	1	2017	FMS (‡) (IV)	1,000	-	1,000																											1,000				
	1	2017	AF (‡)	1,613	-	1,613																											1,613				
	1	2017	Total	2,768	-	2,768																											2,768				
	2	2017	ARMY (VI)	4,055	-	4,055																											4,055				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: 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)														
Cost Elements (Units in Each)							Fiscal Year 2017													Fiscal Year 2018													BALANCE	
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
All-up Rounds																																		
Prior Years Deliveries: 63134																																		
	1	2015	ARMY	262	-	262	-	-	-	-	-	-	-	-	-	-	-	22	22	22	22	22	22	22	22	22	22	21	21		-			
	1	2015	FMS (†)	2,692	-	2,692	-	-	-	-	-	-	-	-	-	-	-	225	225	225	225	224	224	224	224	224	224	224	224		-			
	1	2015	AF (‡)	4,000	-	4,000	-	-	-	-	-	-	-	-	-	-	-	333	334	334	334	334	333	333	333	333	333	333	333		-			
	1	2015	Total	6,954	-	6,954	-	-	-	-	-	-	-	-	-	-	-	580	581	581	581	580	579	579	579	579	579	578	578		-			
	1	2016	ARMY (I)	113	-	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	103			
	1	2016	FMS (‡) (II)	1,332	-	1,332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111	1,221			
	1	2016	AF (‡)	5,567	-	5,567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	464	5,103			
	1	2016	Total	7,012	-	7,012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	585	6,427			
	2	2016	ARMY (V)	270	-	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	247			
	1	2017	ARMY (III)	155	-	155												A -	-	-	-	-	-	-	-	-	-	-	-	-	-	155		
	1	2017	FMS (‡) (IV)	1,000	-	1,000												A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000	
	1	2017	AF (‡)	1,613	-	1,613												A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,613	
	1	2017	Total	2,768	-	2,768												-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,768
	2	2017	ARMY (VI)	4,055	-	4,055												A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,055
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				

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Exhibit P-21, Production Schedule: 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)														
Cost Elements (Units in Each)							Fiscal Year 2019										Fiscal Year 2020										BALANCE				
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019										Calendar Year 2020														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP
All-up Rounds																															
Prior Years Deliveries: 63134																															
	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											-				
	1	2016	FMS (#) (II)	1,332	111	1,221	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	463											-				
	1	2016	Total	7,012	585	6,427	585	585	585	584	584	584	584	584	584	583											-				
	2	2016	ARMY (V)	270	23	247	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	337	-			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army				<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 20			<b>P-1 Line Item Number / Title:</b> C70000 / Hellfire Sys Summary			<b>Item Number / Title [DODIC]:</b> C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)	

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					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	HELLFIRE Sys Limited Liability - Orlando	1,200	3,600	8,000	5	7	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 all quantities are shown in thousands. 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:**

- (I) BASE
- (II) BASE
- (III) BASE
- (IV) BASE
- (V) OCO
- (VI) OCO



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System							<b>P-1 Line Item Number / Title:</b> C70302 / Joint Air-to-Ground MSLS (JAGM)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0605450A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> 355									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	324	-	324	496	1,266	860	1,344	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	92.489	-	92.489	151.804	334.846	227.606	307.370	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	27.738	-	27.738	37.100	75.728	-	-	-	140.566
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	-	64.751	-	64.751	114.704	259.118	227.606	307.370	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	27.738	37.100	-	37.100	75.728	-	-	-	-	140.566
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>27.738</b>	<b>101.851</b>	-	<b>101.851</b>	<b>190.432</b>	<b>259.118</b>	<b>227.606</b>	<b>307.370</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	285.460	-	285.460	306.056	264.491	264.658	228.698	Continuing	Continuing
<b>Description:</b> 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.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
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		
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>324</b>	-	<b>324</b>	<b>496</b>	<b>1,266</b>	<b>860</b>	<b>1,344</b>		
	<b>Total Obligation Authority</b>	-	<b>27.738</b>	<b>101.851</b>	-	<b>101.851</b>	<b>114.704</b>	<b>259.118</b>	<b>227.606</b>	<b>307.370</b>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System					<b>P-1 Line Item Number / Title:</b> C70302 / Joint Air-to-Ground MSLS (JAGM)				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0605450A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> 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)	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)
P-5	C70302 / Joint Air-to-Ground MSLS (JAGM)	P-5a, P-21		- / -	- / -	- / -	324 / 92.489	- / -	324 / 92.489
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>324 / 92.489</b>	<b>- / -</b>	<b>324 / 92.489</b>
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b></p> <p>FY 2017 Base procurement dollars in the amount of \$64.751 million provide government engineering support and the procurement of 324 missiles.</p> <p>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.</p> <p>The JAGM Product Office is the procurement agent for all services. Army Acquisition Objective is 20,303.</p> <p>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.</p>									

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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: C70302 / Joint Air-to-Ground MSLS (JAGM)						Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM)							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code: 355									
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total					
Procurement Quantity (Units in Each)				-		-		-		324		-		324					
Gross/Weapon System Cost (\$ in Millions)				-		-		-		92.489		-		92.489					
Less PY Advance Procurement (\$ in Millions)				-		-		-		27.738		-		27.738					
Net Procurement (P-1) (\$ in Millions)				-		-		-		64.751		-		64.751					
Plus CY Advance Procurement (\$ in Millions)				-		-		27.738		37.100		-		37.100					
Total Obligation Authority (\$ in Millions)				-		-		27.738		101.851		-		101.851					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		-		285.460		-		285.460					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements		Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
All Up Rounds (AUR)(†)		-	-	-	-	-	-	-	-	149.451	324	48.422	-	-	-	149.451	324	48.422	
Engineering Services		-	-	-	-	-	-	-	-	-	-	7.293	-	-	-	-	-	7.293	
Project Management Admin		-	-	-	-	-	-	-	-	-	-	9.036	-	-	-	-	-	9.036	
Guidance Section Long Lead Items		-	-	-	-	-	-	-	-	-	-	24.800	-	-	-	-	-	24.800	
HELLFIRE Backend Long Lead Items		-	-	-	-	-	-	-	-	-	-	2.938	-	-	-	-	-	2.938	
Subtotal: Recurring Cost		-	-	-	-	-	-	-	-	-	-	92.489	-	-	-	-	-	92.489	
Subtotal: Flyaway Cost		-	-	-	-	-	-	-	-	-	-	92.489	-	-	-	-	-	92.489	
Gross/Weapon System Cost		-	-	-	-	-	-	-	-	285.460	324	92.489	-	-	-	285.460	324	92.489	
Secondary Distribution						FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total					
Army		Quantity				-		-		324		-		324					
		Total Obligation Authority				-		27.738		101.851		-		101.851					
Total:		Quantity				-		-		324		-		324					

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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: C70302 / Joint Air-to-Ground MSLS (JAGM)		Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM)		
ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code: 355			
Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	-	-	92.489	-	92.489

(†) indicates the presence of a P-5a

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

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
All Up Rounds (AUR) <sup>(†)</sup>		2017	Lockheed Martin / Orlando	C / FPIF	Redstone Arsenal, AL	Sep 2017	Apr 2018	324	149.451	N		
<b>Advance Procurement</b>												
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			

<sup>(†)</sup> 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).

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Exhibit P-21, Production Schedule: 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 (Units in Each)							Fiscal Year 2017												Fiscal Year 2018												BALANCE	
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
All Up Rounds (AUR)																																
	1	2017	ARMY		324	-	324										A -	-	-	-	-	-	-	-	25	25	30	30	35	35	144	
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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Exhibit P-21, Production Schedule: 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 (Units in Each)							Fiscal Year 2019														Fiscal Year 2020														BALANCE		
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019														Calendar Year 2020																
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
All Up Rounds (AUR)																																					
	1	2017	ARMY		324	180	144	35	35	35	19	10	10																			-					
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army								<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 20				<b>P-1 Line Item Number / Title:</b> C70302 / Joint Air-to-Ground MSLS (JAGM)				<b>Item Number / Title [DODIC]:</b> C70302 / Joint Air-to-Ground MSLS (JAGM)			

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					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	Lockheed Martin - Orlando	100	420	420	-	-	-	-	-	-	-	-

"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 all quantities are shown in thousands. 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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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System	<b>P-1 Line Item Number / Title:</b> C70302 / Joint Air-to-Ground MSLS (JAGM)
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<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0605450A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> 355
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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
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>27.738</b>	<b>37.100</b>	-	<b>37.100</b>	<b>75.728</b>	-	-	-	-	<b>140.566</b>

**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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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2017 Army						<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System				<b>P-1 Line Item Number / Title:</b> C70302 / Joint Air-to-Ground MSLS (JAGM)				
<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0605450A				
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 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)	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)
P-10	C70302 / Joint Air-to-Ground MSLS (JAGM)		- / -	- / -	- / 27.738	324 / 37.100	- / -	324 / 37.100
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>		<b>- / -</b>	<b>- / -</b>	<b>- / 27.738</b>	<b>324 / 37.100</b>	<b>- / -</b>	<b>324 / 37.100</b>
*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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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2017 Army					<b>Date:</b> February 2016	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 20		<b>P-1 Line Item Number / Title:</b> C70302 / Joint Air-to-Ground MSLS (JAGM)			<b>P-5 Number / Title:</b> C70302 / Joint Air-to-Ground MSLS (JAGM)	
<b>MDAP/MAIS Code:</b> 355						
<b>First System (2017) Award Date:</b> April 2016		<b>First System (2017) Completion Date:</b> March 2018			<b>Interval Between Systems:</b> 0 Months	
<b>Joint Air-to-Ground MSLS (JAGM)</b>		<b>Production Leadtime</b> <i>(Months)</i>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2015</b> <i>(Each)</i>	<b>FY 2016</b> <i>(Each)</i>	<b>FY 2017</b> <i>(Each)</i>
Quantity			-	-	-	324
<b>Cost Elements</b>		<b>When Required</b> <i>(Months)</i>	<b>Prior Years</b> <i>(\$ M)</i>	<b>FY 2015</b> <i>(\$ M)</i>	<b>FY 2016</b> <i>(\$ M)</i>	<b>FY 2017</b> <i>(\$ M)</i>
<b>Other</b>						
Guidance Section LL Items (LRIP 1) <sup>(†)</sup>		23	-	-	24.800	-
HELLFIRE Backend LL Items (LRIP 1) <sup>(†)</sup>		23	-	-	2.938	-
Guidance Section LL Items (LRIP 2) <sup>(†)</sup>		23	-	-	-	28.100
HELLFIRE Backend LL Items (LRIP 2) <sup>(†)</sup>		23	-	-	-	9.000
<i>Total: Other</i>			-	-	27.738	37.100
<b>Total Advance Procurement/Obligation Authority</b>			-	-	<b>27.738</b>	<b>37.100</b>

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification):</b> PB 2017 Army						<b>Date:</b> February 2016	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 20		<b>P-1 Line Item Number / Title:</b> C70302 / Joint Air-to-Ground MSLS (JAGM)				<b>P-5 Number / Title:</b> C70302 / Joint Air-to-Ground MSLS (JAGM)	
<b>Cost Elements</b>	<b>QPA</b> <i>(Each)</i>	<b>FY 2017</b>					
		<b>Production Leadtime</b> <i>(Months)</i>	<b>Unit Cost</b> <i>(\$ K)</i>	<b>Contract Forecast Date</b>	<b>2017 Qty</b> <i>(Each)</i>	<b>For FY</b>	<b>Total Cost Request</b> <i>(\$ M)</i>
<b>Other</b>							
Guidance Section LL Items (LRIP 1) <sup>(†)</sup>	1						-
HELLFIRE Backend LL Items (LRIP 1) <sup>(†)</sup>	1						-
Guidance Section LL Items (LRIP 2) <sup>(†)</sup>	1	14	56.653	Apr 2017	496		28.100
HELLFIRE Backend LL Items (LRIP 2) <sup>(†)</sup>	1	18	18.145	Apr 2017	496		9.000
<i>Total: Other</i>							<i>37.100</i>
<b>Total Advance Procurement/Obligation Authority</b>							<b>37.100</b>
<b>Description:</b> N/A  <sup>(†)</sup> indicates the presence of Contract Data presented in the associated P-5 Item's P-5a exhibit.							

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys						<b>P-1 Line Item Number / Title:</b> CC0007 / Javelin (AAWS-M) System Summary						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0604611A					
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 280										
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	27,950	311	850	309	83	392	370	367	422	670	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	100.622	-	-	-	-	-	-	-	-	-	-	100.622
Net Procurement (P-1) ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	100.622	-	-	-	-	-	-	-	-	-	-	100.622
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>4,589.049</b>	<b>72.877</b>	<b>168.163</b>	<b>73.508</b>	<b>15.567</b>	<b>89.075</b>	<b>89.520</b>	<b>88.702</b>	<b>100.539</b>	<b>143.917</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	164.188	234.331	197.839	237.890	187.554	227.232	241.946	241.695	238.244	214.801	Continuing	Continuing
<b>Description:</b> 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.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
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		
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	<b>311</b>	<b>850</b>	<b>309</b>	<b>83</b>	<b>392</b>	<b>370</b>	<b>367</b>	<b>422</b>	<b>670</b>		
	<b>Total Obligation Authority</b>	<b>72.877</b>	<b>168.163</b>	<b>73.508</b>	<b>15.567</b>	<b>89.075</b>	<b>89.520</b>	<b>88.702</b>	<b>100.539</b>	<b>143.917</b>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys					<b>P-1 Line Item Number / Title:</b> CC0007 / Javelin (AAWS-M) System Summary				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0604611A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> 280						
<b>Exhibits Schedule</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
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
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>27,950 / 4,589.049</b>	<b>311 / 72.877</b>	<b>850 / 168.163</b>	<b>309 / 73.508</b>	<b>83 / 15.567</b>	<b>392 / 89.075</b>
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b></p> <p>FY 2017 Base procurement dollars in the amount of \$73.508 million support the procurement of 309 Missiles.</p> <p>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.</p> <p>The estimated missile unit prices are based on combined United States Army, other services, and FMS procurements of 850 missiles per year.</p> <p>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.</p> <p>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.</p>									

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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: CC0007 / Javelin (AAWS-M) System Summary						Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M)						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code: 280									
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity <i>(Units in Each)</i>				27,950		311		850		309		83		392				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				4,589.049		72.877		168.163		73.508		15.567		89.075				
Less PY Advance Procurement <i>(\$ in Millions)</i>				100.622		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				4,488.427		72.877		168.163		73.508		15.567		89.075				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				100.622		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				4,589.049		72.877		168.163		73.508		15.567		89.075				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				164.188		234.331		197.839		237.890		187.554		227.232				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
All Up Round <sup>(†)</sup>	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	69.175
Engineering Services	-	-	146.995	-	-	6.513	-	-	6.653	-	-	7.036	-	-	0.341	-	-	7.377
Engineering Change Orders	-	-	11.672	-	-	0.059	-	-	0.059	-	-	0.066	-	-	0.003	-	-	0.069
Acceptance Testing	-	-	58.009	-	-	0.974	-	-	0.964	-	-	0.938	-	-	0.045	-	-	0.983
Fielding	-	-	20.886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Project Management	-	-	171.590	-	-	6.625	-	-	6.701	-	-	6.522	-	-	0.316	-	-	6.838
Production Engineering	-	-	107.429	-	-	4.417	-	-	4.469	-	-	4.347	-	-	0.211	-	-	4.558
Publications/Technical Data	-	-	2.679	-	-	0.058	-	-	0.060	-	-	0.071	-	-	0.004	-	-	0.075
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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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: CC0007 / Javelin (AAWS-M) System Summary						Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M)						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code: 280								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
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	-	-	89.075
Subtotal: Flyaway Cost	-	-	4,589.049	-	-	72.877	-	-	168.163	-	-	73.508	-	-	15.567	-	-	89.075
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	89.075
Secondary 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			
Total: Secondary Distribution		Quantity					311		850		309		83		392			
		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 Army									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30			P-1 Line Item Number / Title: CC0007 / Javelin (AAWS-M) System Summary						Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M)			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
All Up Round <sup>(†)</sup>		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 <sup>(†)</sup>		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 <sup>(†)</sup>		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

<sup>(†)</sup> 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.

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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: CC0007 / Javelin (AAWS-M) System Summary										Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M)																										
Cost Elements (Units in Each)							Fiscal Year 2015													Fiscal Year 2016													B A L A N C E													
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																										
							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 Round																																														
Prior Years Deliveries: 27221																																														
	1	2015	ARMY	311	-	311														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	311									
	1	2015	FMS (‡)	449	-	449														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	449								
	1	2015	MC (‡)	90	-	90														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90								
	1	2015	Total	850	-	850														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	850								
	1	2016	ARMY	850	-	850																										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	850
	1	2016	MC (‡)	327	-	327																										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	327
	1	2016	Total	1,177	-	1,177																										-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,177
	1	2017	ARMY	392	-	392																												392												
	1	2017	FMS (‡)	449	-	449																												449												
	1	2017	MC (‡)	9	-	9																												9												
	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 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	850															

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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: CC0007 / Javelin (AAWS-M) System Summary													Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M)										
Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018												BALANCE		
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
All Up Round																																	
Prior Years Deliveries: 27221																																	
	1	2015	ARMY	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	327		
	1	2016	Total	1,177	-	1,177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107	107	107	107	107	107	107	101	327		
	1	2017	ARMY	392	-	392							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	392		
	1	2017	FMS (†)	449	-	449							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	449		
	1	2017	MC (†)	9	-	9							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9		
	1	2017	Total	850	-	850							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	850	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					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.

**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 all quantities are shown in thousands. 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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys						<b>P-1 Line Item Number / Title:</b> C59300 / TOW 2 System Summary						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A					<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A										
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	167,942	1,008	1,704	595	815	1,410	640	637	738	745	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	157.144	19.965	19.984	-	-	-	19.949	19.949	19.949	10.500	Continuing	Continuing
Net Procurement (P-1) ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	177.124	19.984	-	19.949	-	19.949	19.949	19.949	10.500	-	-	267.455
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>3,150.000</b>	<b>70.352</b>	<b>87.525</b>	<b>84.871</b>	<b>80.652</b>	<b>165.523</b>	<b>89.161</b>	<b>89.134</b>	<b>79.481</b>	<b>68.885</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	18.638	69.775	63.092	109.113	98.960	103.244	139.314	139.928	120.501	106.557	Continuing	Continuing
<b>Description:</b>												
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.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
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		
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	<b>1,008</b>	<b>1,704</b>	<b>595</b>	<b>815</b>	<b>1,410</b>	<b>640</b>	<b>637</b>	<b>738</b>	<b>745</b>		
	<b>Total Obligation Authority</b>	<b>70.352</b>	<b>87.525</b>	<b>84.871</b>	<b>80.652</b>	<b>165.523</b>	<b>69.212</b>	<b>69.185</b>	<b>68.981</b>	<b>68.885</b>		

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys					<b>P-1 Line Item Number / Title:</b> C59300 / TOW 2 System Summary				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A						
<b>Exhibits Schedule</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
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
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>167,942 / 3,130.020</b>	<b>1,008 / 70.333</b>	<b>1,704 / 107.509</b>	<b>595 / 64.922</b>	<b>815 / 80.652</b>	<b>1,410 / 145.574</b>
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b>  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.</p> <p>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.</p> <p>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.</p> <p><b>NOTES:</b>  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.</p>									

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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: 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:											
Resource Summary				Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
Procurement Quantity ( <i>Units in Each</i> )				167,942			1,008			1,704			595			815			1,410		
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				3,130.020			70.333			107.509			64.922			80.652			145.574		
Less PY Advance Procurement ( <i>\$ in Millions</i> )				157.144			19.965			19.984			-			-			-		
Net Procurement (P-1) ( <i>\$ in Millions</i> )				2,972.876			50.368			87.525			64.922			80.652			145.574		
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				177.124			19.984			-			19.949			-			19.949		
Total Obligation Authority ( <i>\$ in Millions</i> )				3,150.000			70.352			87.525			84.871			80.652			165.523		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares ( <i>\$ in Millions</i> )				-			-			-			-			-			-		
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )				18.638			69.775			63.092			109.113			98.960			103.244		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total					
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)			
Flyaway Cost																					
Recurring Cost																					
Non-Recurring	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Missile Contract <sup>(†)</sup>	18.238	167,942	3,062.926	58.908	1,008	59.379	67.698	1,704	115.357	56.010	595	33.326	89.537	815	72.973	75.389	1,410	106.299			
Engineering Services	-	-	16.964	-	-	2.327	-	-	2.393	-	-	2.307	-	-	4.216	-	-	6.523			
Acceptance Testing	-	-	3.439	-	-	1.445	-	-	1.524	-	-	1.449	-	-	2.898	-	-	4.347			
Project Mgt Admin	-	-	24.726	-	-	7.163	-	-	8.219	-	-	7.891	-	-	0.565	-	-	8.456			
Less: Prior Year Adv 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	-	-	145.573			
Subtotal: Flyaway Cost	-	-	3,130.020	-	-	70.333	-	-	107.509	-	-	64.922	-	-	80.652	-	-	145.573			
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			
Secondary Distribution							FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
Army		Quantity					1,008			1,704			595			815			1,410		
		Total Obligation Authority					70.352			87.525			84.871			80.652			165.523		
Total: Secondary Distribution		Quantity					1,008			1,704			595			815			1,410		
		Total Obligation Authority					70.333			107.509			64.922			80.652			145.574		



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<b>Exhibit P-5a, Procurement History and Planning: PB 2017 Army</b>									<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 30				<b>P-1 Line Item Number / Title:</b> C59300 / TOW 2 System Summary					<b>Item Number / Title [DODIC]:</b> C59403 / TOW Family of Missiles			
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Missile Contract <sup>(†)</sup>		2015	Raytheon / Tucson	SS / FFP	AMCOM, Redstone Arsenal, AL	Dec 2014	Jul 2016	1,008	58.908	Y		
Missile Contract <sup>(†)</sup>		2016	Raytheon / Tucson	SS / FFP	AMCOM, Redstone Arsenal, AL	Dec 2015	Jul 2017	1,704	67.698	Y		
Missile Contract <sup>(†)</sup>		2017	Raytheon / Tucson	SS / FFP	AMCOM, Redstone Arsenal, AL	May 2017	Apr 2019	595	56.010	Y		
Missile Contract <sup>(†)</sup>		2017	Raytheon OCO / Tucson	SS / FFP	AMCOM, Redstone Arsenal, AL	May 2017	Dec 2018	815	89.538	Y		
<b>Advance Procurement</b>												
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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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 30				<b>P-1 Line Item Number / Title:</b> C59300 / TOW 2 System Summary				<b>Item Number / Title [DODIC]:</b> C59403 / TOW Family of Missiles				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
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

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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												
Cost Elements (Units in Each)							Fiscal Year 2015												Fiscal Year 2016												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 4	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016													
							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		
Missile Contract																																
Prior Years Deliveries: 167942																																
	1	2015	ARMY <sup>(VII)</sup>	1,008	-	1,008			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	84	84	756
	1	2015	MC <sup>(†)</sup> <sup>(VIII)</sup>	136	-	136			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	100
	1	2015	Total	1,144	-	1,144			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	96	96	856
	1	2016	ARMY <sup>(IX)</sup>	1,704	-	1,704															A -	-	-	-	-	-	-	-	-	-	-	1,704
	1	2016	MC <sup>(†)</sup> <sup>(X)</sup>	1,114	-	1,114															A -	-	-	-	-	-	-	-	-	-	-	1,114
	1	2016	Total	2,818	-	2,818															-	-	-	-	-	-	-	-	-	-	-	2,818
	1	2017	ARMY <sup>(XI)</sup>	595	-	595																										595
	1	2017	MC <sup>(†)</sup> <sup>(XII)</sup>	60	-	60																										60
	1	2017	Total	655	-	655																										655
	2	2017	ARMY <sup>(XIII)</sup>	815	-	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	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, 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														
Cost Elements (Units in Each)							Fiscal Year 2017										Fiscal Year 2018													BALANCE				
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT				Calendar Year 2017										Calendar Year 2018														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP			
Missile Contract																																		
Prior Years Deliveries: 167942																																		
	1	2015	ARMY <sup>(VII)</sup>	1,008	252	756	84	84	84	84	84	84	84	84																				-
	1	2015	MC <sup>(†)</sup> <sup>(VIII)</sup>	136	36	100	12	12	12	12	12	10	10	10																				-
	1	2015	Total	1,144	288	856	96	96	96	96	96	94	94	94																				-
	1	2016	ARMY <sup>(IX)</sup>	1,704	-	1,704	-	-	-	-	-	-	-	-	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	-	-	-	-	
	1	2016	MC <sup>(†)</sup> <sup>(X)</sup>	1,114	-	1,114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	224	224	222	444		
	1	2016	Total	2,818	-	2,818	-	-	-	-	-	-	-	-	142	142	142	142	142	142	142	142	142	142	142	142	142	142	224	224	222	444		
	1	2017	ARMY <sup>(XI)</sup>	595	-	595								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	595		
	1	2017	MC <sup>(†)</sup> <sup>(XII)</sup>	60	-	60								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	
	1	2017	Total	655	-	655								-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	655	
	2	2017	ARMY <sup>(XIII)</sup>	815	-	815								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	815	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				

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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																																							
Cost Elements (Units in Each)							Fiscal Year 2019													Fiscal Year 2020													BALANCE																										
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020																																							
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																													
Missile Contract																																																											
Prior Years Deliveries: 167942																																																											
	1	2015	ARMY <sup>(VII)</sup>	1,008	1,008	-																												-																									
	1	2015	MC <sup>(†)</sup> <sup>(VIII)</sup>	136	136	-																												-																									
	1	2015	Total	1,144	1,144	-																												-																									
	1	2016	ARMY <sup>(IX)</sup>	1,704	1,704	-																												-	-																								-
	1	2016	MC <sup>(†)</sup> <sup>(X)</sup>	1,114	670	444																												222	222																								-
	1	2016	Total	2,818	2,374	444																												222	222																								-
	1	2017	ARMY <sup>(XI)</sup>	595	-	595	-	-	-	-	-	60	175	175	175	10																		-																									
	1	2017	MC <sup>(†)</sup> <sup>(XII)</sup>	60	-	60	-	-	-	-	-	-	-	-	-	60																		-																									
	1	2017	Total	655	-	655	-	-	-	-	-	60	175	175	175	70																		-																									
	2	2017	ARMY <sup>(XIII)</sup>	815	-	815	-	-	175	175	175	175	115																					-																									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																													

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

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					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	Raytheon - Tucson	2,100	7,200	16,800	3	2	16	18	3	2	16	18
2	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 10,000 and 999,999 all quantities are shown in thousands. 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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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys							<b>P-1 Line Item Number / Title:</b> C59300 / TOW 2 System Summary					
<b>Program Elements for Code B Items:</b> N/A							<b>Other Related Program Elements:</b> N/A					
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A										
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
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
<b>Total Obligation Authority (\$ in Millions)</b>	<b>177.124</b>	<b>19.984</b>	<b>-</b>	<b>19.949</b>	<b>-</b>	<b>19.949</b>	<b>19.949</b>	<b>19.949</b>	<b>10.500</b>	<b>-</b>	<b>-</b>	<b>267.455</b>
<p><b>Description:</b></p> <p>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.</p> <p>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.</p>												



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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys					<b>P-1 Line Item Number / Title:</b> C59300 / TOW 2 System Summary			
<b>Program Elements for Code B Items:</b> N/A					<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A					
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
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
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>		<b>167,942 / 177.124</b>	<b>1,008 / 19.984</b>	<b>1,704 / -</b>	<b>595 / 19.949</b>	<b>815 / -</b>	<b>1,410 / 19.949</b>
*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.								
<p><b>Justification:</b> 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.</p> <p>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.</p> <p><b>NOTES:</b> 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.</p>								

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2017 Army					<b>Date:</b> February 2016	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 30		<b>P-1 Line Item Number / Title:</b> C59300 / TOW 2 System Summary			<b>P-5 Number / Title:</b> C59403 / TOW Family of Missiles	
<b>First System (2017) Award Date:</b> May 2017		<b>First System (2017) Completion Date:</b> December 2018		<b>Interval Between Systems:</b> 12 Months		
<b>TOW Family of Missiles</b>		<b>Production Leadtime</b> <i>(Months)</i>	<b>Prior Years</b> <i>(Each)</i>	<b>FY 2015</b> <i>(Each)</i>	<b>FY 2016</b> <i>(Each)</i>	<b>FY 2017</b> <i>(Each)</i>
Quantity			167,942	1,008	1,704	1,410
<b>Cost Elements</b>		<b>When Required</b> <i>(Months)</i>	<b>Prior Years</b> <i>(\$ M)</i>	<b>FY 2015</b> <i>(\$ M)</i>	<b>FY 2016</b> <i>(\$ M)</i>	<b>FY 2017</b> <i>(\$ M)</i>
<b>Other</b>						
Launch Motor <sup>(†)</sup>		14	9.460	0.905	-	0.899
Flight Motor <sup>(†)</sup>		12	2.983	0.170	-	0.169
Warhead <sup>(†)</sup>		19	72.424	7.018	-	7.070
Gyro <sup>(†)</sup>		13	16.181	1.548	-	1.537
Flight Motor Case Kit <sup>(†)</sup>		10	3.669	0.351	-	0.349
2B Sensor <sup>(†)</sup>		18	57.158	8.533	-	8.475
Control Surface Actuator <sup>(†)</sup>		13	9.575	0.916	-	0.910
Beacon Shutter Actuator <sup>(†)</sup>		11	5.674	0.543	-	0.540
<i>Total: Other</i>			<i>177.124</i>	<i>19.984</i>	<i>-</i>	<i>19.949</i>
<b>Total Advance Procurement/Obligation Authority</b>			<b>177.124</b>	<b>19.984</b>	<b>-</b>	<b>19.949</b>

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): 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			P-5 Number / Title: C59403 / TOW Family of Missiles		
Cost Elements	QPA (Each)	FY 2017					
		Production Leadtime (Months)	Unit Cost (\$ K)	Contract Forecast Date	2017 Qty (Each)	For FY	Total Cost Request (\$ M)
Other							
Launch Motor <sup>(†)</sup>	1	14	1.529	May 2017	588		0.899
Flight Motor <sup>(†)</sup>	1	12	0.284	May 2017	595		0.169
Warhead <sup>(†)</sup>	1	19	11.882	May 2017	595		7.070
Gyro <sup>(†)</sup>	1	13	2.583	May 2017	595		1.537
Flight Motor Case Kit <sup>(†)</sup>	1	12	0.594	May 2017	588		0.349
2B Sensor <sup>(†)</sup>	1	18	14.244	May 2017	595		8.475
Control Surface Actuator <sup>(†)</sup>	1	13	1.529	May 2017	595		0.910
Beacon Shutter Actuator <sup>(†)</sup>	1	12	0.908	May 2017	595		0.540
Total: Other							19.949
Total Advance Procurement/Obligation Authority							19.949
<p><b>Description:</b> Advanced procurement funding in FY17, FY18, FY19 &amp; FY20 procures EOQ to support the FY17-21 multi-year contract for 3,355 missiles.</p> <p>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.</p> <p>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.</p> <p><sup>(†)</sup> indicates the presence of Contract Data presented in the associated P-5 Item's P-5a exhibit.</p>							

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys						<b>P-1 Line Item Number / Title:</b> C64400 / Guided MLRS Rocket (GMLRS)						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0603778A, 0205778A					
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 260										
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	21,684	768	1,866	1,068	698	1,766	1,836	1,296	1,998	1,776	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>2,620.775</b>	<b>127.145</b>	<b>251.060</b>	<b>172.088</b>	<b>75.991</b>	<b>248.079</b>	<b>260.698</b>	<b>205.409</b>	<b>287.288</b>	<b>265.991</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	120.862	165.553	134.544	161.131	108.870	140.475	141.992	158.495	143.788	149.770	Continuing	Continuing
<p><b>Description:</b>          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.</p> <p>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.</p>												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
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		
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>768</b>	<b>1,866</b>	<b>1,068</b>	<b>698</b>	<b>1,766</b>	<b>1,836</b>	<b>1,296</b>	<b>1,998</b>	<b>1,776</b>		
	<b>Total Obligation Authority</b>	<b>127.145</b>	<b>251.060</b>	<b>172.088</b>	<b>75.991</b>	<b>248.079</b>	<b>260.698</b>	<b>205.409</b>	<b>287.288</b>	<b>265.991</b>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys					<b>P-1 Line Item Number / Title:</b> C64400 / Guided MLRS Rocket (GMLRS)				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0603778A, 0205778A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> 260						
<b>Exhibits Schedule</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
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
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>21,684 / 2,620.775</b>	<b>768 / 127.145</b>	<b>1,866 / 251.060</b>	<b>1,068 / 172.088</b>	<b>698 / 75.991</b>	<b>1,766 / 248.079</b>
*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.									
<p><b>Justification:</b>  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.</p> <p>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.</p> <p>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 Initiative. The procurements include 698 GMLRS rockets.</p> <p>All funding goes to the Active Component.</p> <p>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.</p>									

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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: 260											
Resource Summary				Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
Procurement Quantity (Units in Each)				21,684			768			1,866			1,068			698			1,766		
Gross/Weapon System Cost (\$ in Millions)				2,618.586			126.707			250.617			171.638			75.991			247.629		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				2,618.586			126.707			250.617			171.638			75.991			247.629		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				2,618.586			126.707			250.617			171.638			75.991			247.629		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Thousands)				120.761			164.983			134.307			160.710			108.870			140.220		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total					
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)			
Flyaway Cost																					
Recurring Cost																					
Tactical GMLRS Hardware <sup>(†)</sup>	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	216.571			
Engineering Services	-	-	76.932	-	-	5.587	-	-	5.696	-	-	5.807	-	-	-	-	-	5.807			
Ind Maint/Init Prod Fac	-	-	55.971	-	-	0.136	-	-	4.604	-	-	-	-	-	-	-	-	-			
Government Test	-	-	44.276	-	-	6.073	-	-	6.284	-	-	6.407	-	-	-	-	-	6.407			
First Destination Transportation	-	-	3.639	-	-	0.121	-	-	0.263	-	-	0.163	-	-	0.099	-	-	0.262			
Production Engineering Support	-	-	155.642	-	-	12.117	-	-	11.874	-	-	12.105	-	-	-	-	-	12.105			
Project Management Admin	-	-	59.887	-	-	6.232	-	-	6.353	-	-	6.477	-	-	-	-	-	6.477			
Spares	-	-	1.277	-	-	-	-	-	1.635	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	2,618.586	-	-	126.708	-	-	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			
Secondary Distribution							FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
Army		Quantity					768			1,866			1,068			698			1,766		

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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: 260		
Secondary 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

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army									<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 30				<b>P-1 Line Item Number / Title:</b> C64400 / Guided MLRS Rocket (GMLRS)					<b>Item Number / Title [DODIC]:</b> C65404 / GUIDED MLRS ROCKET (GMLRS)			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Tactical GMLRS Hardware <sup>(†)</sup>		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 <sup>(†)</sup>		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 <sup>(†)</sup>		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
<p><sup>(†)</sup> indicates the presence of a P-21</p> <p><b>Remarks:</b> Lockheed Martin is currently the industry source that is both facilitized and qualified to produce the GMLRS rocket.</p> <p>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.</p> <p>*Sole Source/Firm Fixed Price **Aviation and Missile Command, Redstone Arsenal, Alabama</p>												



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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)													Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS)																										
Cost Elements (Units in Each)							Fiscal Year 2015													Fiscal Year 2016													B A L A N C E													
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																										
							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																
Tactical GMLRS Hardware																																														
Prior Years Deliveries: 21684																																														
	1	2015	ARMY	768	-	768														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	768									
	1	2015	MC <sup>(†)</sup>	72	-	72														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72									
	1	2015	Total	840	-	840														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	840									
	1	2016	ARMY	1,866	-	1,866																											A -	-	-	-	-	-	-	-	-	-	-	1,866		
	1	2016	MC <sup>(†)</sup>	90	-	90																											A -	-	-	-	-	-	-	-	-	-	-	90		
	1	2016	Total	1,956	-	1,956																											-	-	-	-	-	-	-	-	-	-	-	1,956		
	1	2017	ARMY	1,766	-	1,766																																								1,766
	1	2017	MC <sup>(†)</sup>	180	-	180																																								180
	1	2017	Total	1,946	-	1,946																																								1,946
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																

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Exhibit P-21, 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)												Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS)														
Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018														B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018												
							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			
Tactical GMLRS Hardware																																	
Prior Years Deliveries: 21684																																	
	1	2015	ARMY	768	-	768	66	66	66	66	66	66	66	66	66	66	66	42															-
	1	2015	MC (†)	72	-	72	6	6	6	6	6	6	6	6	6	6	6	6															-
	1	2015	Total	840	-	840	72	72	72	72	72	72	72	72	72	72	72	48															-
	1	2016	ARMY	1,866	-	1,866	-	-	-	-	-	-	-	-	-	162	162	162	162	162	162	162	162	162	162	162	84					-	
	1	2016	MC (†)	90	-	90	-	-	-	-	-	-	-	-	-	12	12	12	6	6	6	6	6	6	6	6	6					-	
	1	2016	Total	1,956	-	1,956	-	-	-	-	-	-	-	-	-	174	174	174	168	168	168	168	168	168	168	168	168	90					-
	1	2017	ARMY	1,766	-	1,766	A -		-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	150	150	150	150	150	866				
	1	2017	MC (†)	180	-	180	A -		-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	18	18	18	72				
	1	2017	Total	1,946	-	1,946	-		-	-	-	-	-	-	-	-	-	-	-	-	-	168	168	168	168	168	168	938					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army																								<b>Date:</b> February 2016											
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 30												<b>P-1 Line Item Number / Title:</b> C64400 / Guided MLRS Rocket (GMLRS)												<b>Item Number / Title [DODIC]:</b> C65404 / GUIDED MLRS ROCKET (GMLRS)											
<b>Cost Elements</b> <i>(Units in Each)</i>								<b>Fiscal Year 2019</b>												<b>Fiscal Year 2020</b>												<b>B A L A N C E</b>			
O C O	M F R #	F Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 8	B A L D U E A S O F 1 O C T	<b>Calendar Year 2019</b>												<b>Calendar Year 2020</b>																
							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					
Tactical GMLRS Hardware																																			
Prior Years Deliveries: 21684																																			
	1	2015	ARMY	768	768	-																													-
	1	2015	MC <sup>(†)</sup>	72	72	-																													-
	<b>1</b>	<b>2015</b>	<b>Total</b>	<b>840</b>	<b>840</b>	-																													-
	1	2016	ARMY	1,866	1,866	-																													-
	1	2016	MC <sup>(†)</sup>	90	90	-																													-
	<b>1</b>	<b>2016</b>	<b>Total</b>	<b>1,956</b>	<b>1,956</b>	-																													-
	1	2017	ARMY	1,766	900	866	150	150	150	150	150	116																						-	
	1	2017	MC <sup>(†)</sup>	180	108	72	12	12	12	12	12	12																						-	
	<b>1</b>	<b>2017</b>	<b>Total</b>	<b>1,946</b>	<b>1,008</b>	<b>938</b>	<b>162</b>	<b>162</b>	<b>162</b>	<b>162</b>	<b>162</b>	<b>128</b>																						-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, 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)					Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS)			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder				
					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	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 all quantities are shown in thousands. 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-40a, Budget Item Justification For Aggregated Items: 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)							Aggregated Items Title: Various						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
GMLRS Training Devices																				
C65406 / GMLRS Training Devices			-	-	2.186	-	-	0.438	-	-	0.443	-	-	0.450	-	-	-	-	-	0.450
Secondary Distribution																				
Army				-	-		-	0.438		-	0.443		-	0.450		-	-		-	0.450
Subtotal: GMLRS Training Devices			-	-	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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys							<b>P-1 Line Item Number / Title:</b> C65405 / MLRS Reduced Range Practice Rockets (RRPR)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A					<b>Other Related Program Elements:</b> 0210602A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	44,771	2,994	1,680	1,704	-	1,704	2,208	2,244	2,244	2,262	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	172.690	17.274	17.428	18.004	-	18.004	23.321	24.147	24.628	25.276	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	172.690	17.274	17.428	18.004	-	18.004	23.321	24.147	24.628	25.276	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>172.690</b>	<b>17.274</b>	<b>17.428</b>	<b>18.004</b>	<b>-</b>	<b>18.004</b>	<b>23.321</b>	<b>24.147</b>	<b>24.628</b>	<b>25.276</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	3.857	5.770	10.374	10.566	-	10.566	10.562	10.761	10.975	11.174	Continuing	Continuing
<p><b>Description:</b></p> <p>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.</p> <p>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.</p>												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
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		
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	<b>2,994</b>	<b>1,680</b>	<b>1,704</b>	<b>-</b>	<b>1,704</b>	<b>2,208</b>	<b>2,244</b>	<b>2,244</b>	<b>2,262</b>		
	<b>Total Obligation Authority</b>	<b>17.274</b>	<b>17.428</b>	<b>18.004</b>	<b>-</b>	<b>18.004</b>	<b>23.321</b>	<b>24.147</b>	<b>24.628</b>	<b>25.276</b>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys					<b>P-1 Line Item Number / Title:</b> C65405 / MLRS Reduced Range Practice Rockets (RRPR)				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0210602A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> 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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	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
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>44,771 / 172.690</b>	<b>2,994 / 17.274</b>	<b>1,680 / 17.428</b>	<b>1,704 / 18.004</b>	<b>- / -</b>	<b>1,704 / 18.004</b>
*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:								
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity <i>(Units in Each)</i>				44,771		2,994		1,680		1,704		-		1,704				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				172.690		17.274		17.428		18.004		-		18.004				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				172.690		17.274		17.428		18.004		-		18.004				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				172.690		17.274		17.428		18.004		-		18.004				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				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.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Reduced Range Practice Rocket (LCRRPR) <sup>(†)</sup>	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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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 30	<b>P-1 Line Item Number / Title:</b> C65405 / MLRS Reduced Range Practice Rockets (RRPR)	<b>Item Number / Title [DODIC]:</b> C65405 / MLRS Reduced Range Practice Rockets (RRPR)

ID Code (A=Service Ready, B=Not Service Ready) :			MDAP/MAIS Code:			
Secondary 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: Secondary Distribution	Quantity	2,994	1,680	1,704	-	1,704
	Total Obligation Authority	17.274	17.428	18.004	-	18.004

(†) indicates the presence of a P-5a

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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)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Reduced Range Practice Rocket (LCRRPR) <sup>(†)</sup>		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) <sup>(†)</sup>		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) <sup>(†)</sup>		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) <sup>(†)</sup>		2017	Letterkenny Munitions Center / Chambersburg, PA	MIPR	LEMC, PA	Dec 2016	Apr 2018	642	5.771	Y		

<sup>(†)</sup> 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

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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)														
Cost Elements (Units in Each)							Fiscal Year 2015										Fiscal Year 2016														B A L A N C E			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT				Calendar Year 2015										Calendar Year 2016														
							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				
Reduced Range Practice Rocket (LCRRPR)																																		
Prior Years Deliveries: 33561																																		
	1	2015	ARMY <sup>(XIV)</sup>	2,994	-	2,994				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250	250	250	250	250	1,744
	1	2015	MC <sup>(†)</sup> (XV)	648	-	648				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	53	54	54	55	379
	1	2015	Total	3,642	-	3,642				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	303	303	304	304	305	2,123
	1	2016	ARMY <sup>(XVI)</sup>	1,680	-	1,680															A -	-	-	-	-	-	-	-	-	-	-	-	-	1,680
	1	2016	MC <sup>(†)</sup> (XVII)	648	-	648															A -	-	-	-	-	-	-	-	-	-	-	-	-	648
	1	2016	Total	2,328	-	2,328															-	-	-	-	-	-	-	-	-	-	-	-	-	2,328
	1	2017	ARMY <sup>(XVIII)</sup>	1,062	-	1,062																												1,062
	1	2017	MC <sup>(†)</sup> (XIX)	648	-	648																												648
	1	2017	Total	1,710	-	1,710																												1,710
	2	2017	ARMY <sup>(XX)</sup>	642	-	642																												642
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, 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)													
Cost Elements (Units in Each)							Fiscal Year 2017										Fiscal Year 2018													B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT				Calendar Year 2017										Calendar Year 2018													
							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		
Reduced Range Practice Rocket (LCRRPR)																																	
Prior Years Deliveries: 33561																																	
	1	2015	ARMY <sup>(XIV)</sup>	2,994	1,250	1,744	250	250	250	250	250	250	244																		-		
	1	2015	MC <sup>(†)</sup> (XV)	648	269	379	55	55	55	54	54	53	53																		-		
	1	2015	Total	3,642	1,519	2,123	305	305	305	304	304	303	297																		-		
	1	2016	ARMY <sup>(XVI)</sup>	1,680	-	1,680	-	-	-	-	-	-	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	-			
	1	2016	MC <sup>(†)</sup> (XVII)	648	-	648	-	-	-	-	-	-	53	53	54	54	55	55	55	55	54	54	53	53					-				
	1	2016	Total	2,328	-	2,328	-	-	-	-	-	-	193	193	194	194	195	195	195	195	194	194	193	193					-				
	1	2017	ARMY <sup>(XVIII)</sup>	1,062	-	1,062	A -			-	-	-	-	-	-	-	-	-	-	-	-	-	-	88	88	88	88	89	89	532			
	1	2017	MC <sup>(†)</sup> (XIX)	648	-	648	A -			-	-	-	-	-	-	-	-	-	-	-	-	-	54	54	54	54	54	54	324				
	1	2017	Total	1,710	-	1,710	-			-	-	-	-	-	-	-	-	-	-	-	-	-	142	142	142	142	143	143	856				
	2	2017	ARMY <sup>(XX)</sup>	642	-	642	A -			-	-	-	-	-	-	-	-	-	-	-	-	-	53	53	53	54	54	54	321				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, 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)														
Cost Elements (Units in Each)							Fiscal Year 2019													Fiscal Year 2020													BALANCE	
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
Reduced Range Practice Rocket (LCRRPR)																																		
Prior Years Deliveries: 33561																																		
	1	2015	ARMY <sup>(XIV)</sup>	2,994	2,994	-																												-
	1	2015	MC <sup>(†)</sup> <sup>(XV)</sup>	648	648	-																												-
	1	2015	Total	3,642	3,642	-																												-
	1	2016	ARMY <sup>(XVI)</sup>	1,680	1,680	-																												-
	1	2016	MC <sup>(†)</sup> <sup>(XVII)</sup>	648	648	-																												-
	1	2016	Total	2,328	2,328	-																												-
	1	2017	ARMY <sup>(XVIII)</sup>	1,062	530	532	89	89	89	89	88	88																						-
	1	2017	MC <sup>(†)</sup> <sup>(XIX)</sup>	648	324	324	54	54	54	54	54	54																						-
	1	2017	Total	1,710	854	856	143	143	143	143	142	142																						-
	2	2017	ARMY <sup>(XX)</sup>	642	321	321	54	54	54	53	53	53	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	-									

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

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					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	Lockheed Martin - Dallas, TX	42	480	960	-	2	16	18	-	2	16	18
2	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 10,000 and 999,999 all quantities are shown in thousands. 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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys							<b>P-1 Line Item Number / Title:</b> C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	10	10	-	-	-	-	-	10
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	-	4.777	4.777	-	-	-	-	-	4.777
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	-	-	4.777	4.777	-	-	-	-	-	4.777
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	-	-	<b>4.777</b>	<b>4.777</b>	-	-	-	-	-	<b>4.777</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	477.700	477.700	-	-	-	-	-	477.700
<b>Description:</b> 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.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
Army	Quantity	-	-	-	10	10	-	-	-	-		
	Total Obligation Authority	-	-	-	4.777	4.777	-	-	-	-		
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	-	-	-	<b>10</b>	<b>10</b>	-	-	-	-		
	<b>Total Obligation Authority</b>	-	-	-	<b>4.777</b>	<b>4.777</b>	-	-	-	-		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys					<b>P-1 Line Item Number / Title:</b> C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> 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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)			- / -	- / -	- / -	- / -	10 / 4.777	10 / 4.777
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>10 / 4.777</b>	<b>10 / 4.777</b>
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b>  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.</p>									



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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 Service Ready) :										MDAP/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 informational purposes only. The corresponding budget requests are documented elsewhere.)																		
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.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Inert Training Missiles	-	-	-	-	-	-	-	-	-	-	-	-	56.830	50	2.842	56.830	50	2.842
Training Simulators	-	-	-	-	-	-	-	-	-	-	-	-	27.084	10	0.271	27.084	10	0.271
Fielding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.719	-	-	0.719
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.832	-	-	3.832
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.832	-	-	3.832
Command and Launch Cost																		
Flight Control Units	-	-	-	-	-	-	-	-	-	-	-	-	25.320	10	0.253	25.320	10	0.253
Tactical Battery Chargers	-	-	-	-	-	-	-	-	-	-	-	-	3.680	10	0.037	3.680	10	0.037
Fielding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.360	-	-	0.360
Subtotal: Command and Launch Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.650	-	-	0.650
Support Cost																		
Project Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.295	-	-	0.295
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.295	-	-	0.295
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	477.700	10	4.777	477.700	10	4.777

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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 Service Ready) :				MDAP/MAIS Code:		
Secondary 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: Secondary Distribution	Quantity	-	-	-	10	10
	Total Obligation Authority	-	-	-	4.777	4.777

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications							<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0607865A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>3,142.820</b>	<b>183.838</b>	<b>241.883</b>	<b>197.107</b>	<b>-</b>	<b>197.107</b>	<b>318.940</b>	<b>304.064</b>	<b>201.403</b>	<b>168.760</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**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 (DSLCL).

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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications		<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0607865A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	
<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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 Trainer (PIMIT) for Intermediate Maintenance training but is also used for Organizational, NET, and even Depot maintenance training. P-MET is used in an 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 training 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 JLENS). The RT3 is a Life Cycle Replacement for the PCOFT and the PATRIOT Intermediate Maintenance Institutional Trainer (PIMIT) hardware platforms.</p> <p>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.</p> <p>The Enhanced Launcher Electronics System (ELES) modification upgrades a PAC-2 Launcher to a PAC-3 Capability.</p> <p>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)</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications						<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0607865A				
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A								
<p>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.</p> <p>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.</p> <p>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.</p> <p>Digital Sidelobe Cancellor (DSLCL) 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. DSLCL replaces the analog hardware and performs this task digitally in the radars processor. Benefits of the DSLCL include improved Side Lobe Cancellor (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.</p>										
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	183.838	241.883	197.107	-	197.107	318.940	304.064	201.403	168.760
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>183.838</b>	<b>241.883</b>	<b>197.107</b>	-	<b>197.107</b>	<b>318.940</b>	<b>304.064</b>	<b>201.403</b>	<b>168.760</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications					<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0607865A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> 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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C50700 / PATRIOT MODS (Various)			- / 3,142.820	- / 183.838	- / 241.883	- / 197.107	- / -	- / 197.107
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 3,142.820</b>	<b>- / 183.838</b>	<b>- / 241.883</b>	<b>- / 197.107</b>	<b>- / -</b>	<b>- / 197.107</b>

  

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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C50700 / PATRIOT MODS (Various)			- / 318.940	- / 304.064	- / 201.403	- / 168.760	Continuing	Continuing
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 318.940</b>	<b>- / 304.064</b>	<b>- / 201.403</b>	<b>- / 168.760</b>	<b>Continuing</b>	<b>Continuing</b>

\*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 \$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 Cancellor (DSLCL).

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.

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10	<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods	<b>Modification Number / Title:</b> C50700 / PATRIOT 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 ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**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.

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

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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			
Models of Systems Affected: Various			Modification Type: Various					Related RDT&E PEs:				
Financial Plan	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 15: RAM Mods												
A Kits												
Recurring												
Kit Quantity	6,382 / 611.242	90 / 11.317	110 / 17.100	129 / 17.061	- / -	129 / 17.061	131 / 15.446	126 / 14.322	162 / 19.305	145 / 21.409	6,838 / -	14,113 / 727.202
Training	0 / 38.509	- / 10.224	- / 13.000	- / 12.925	- / -	- / 12.925	- / 11.702	- / 10.850	- / 14.625	- / 16.490	- / -	- / 128.325
Training Equipment	0 / 15.586	- / 5.643	- / 2.500	- / 2.585	- / -	- / 2.585	- / 2.340	- / 2.170	- / 2.925	- / 2.680	- / -	- / 36.429
Support Equipment	0 / 24.087	- / 8.441	- / 6.850	- / 6.721	- / -	- / 6.721	- / 6.085	- / 5.642	- / 7.605	- / 8.433	- / -	- / 73.864
Other	0 / 46.242	- / 13.225	- / 11.550	- / 11.374	- / -	- / 11.374	- / 10.297	- / 9.548	- / 12.870	- / 14.127	- / -	- / 129.233
Integrated Logistics Support	0 / 7.487	- / 1.150	- / 1.100	- / 1.034	- / -	- / 1.034	- / 0.939	- / 0.868	- / 1.170	- / 1.861	- / -	- / 15.609
Subtotal: Recurring	- / 743.153	- / 50.000	- / 52.100	- / 51.700	- / -	- / 51.700	- / 46.809	- / 43.400	- / 58.500	- / 65.000	- / -	- / 1,110.662
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 / -	14,113 / 1,110.662
Modification Item 2 of 15: Recapitalization												
A Kits												
Recurring												
Kit Quantity	12 / 200.139	1 / 10.000	1 / 11.200	1 / 12.411	- / -	1 / 12.411	1 / 12.650	1 / 13.100	1 / 13.700	1 / 13.400	11 / -	30 / 286.600
Integrated Logistics Support	0 / 12.606	- / 2.000	- / 1.900	- / 0.802	- / -	- / 0.802	- / 1.650	- / 1.100	- / 0.300	- / 0.500	- / -	- / 20.858
Subtotal: Recurring	- / 212.745	- / 12.000	- / 13.100	- / 13.213	- / -	- / 13.213	- / 14.300	- / 14.200	- / 14.000	- / 13.900	- / -	- / 307.458
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 / 307.458
Modification Item 3 of 15: BCP/TCS/CSM												
A Kits												
Recurring												
Engineering Change Orders	0 / 1.015	- / 0.400	- / 0.660	- / 0.770	- / -	- / 0.770	- / 0.770	- / 0.770	- / 0.770	- / 0.770	- / -	- / 5.925
Fielding Support	0 / 2.639	- / 0.500	- / 0.840	- / 0.980	- / -	- / 0.980	- / 0.980	- / 0.980	- / 0.980	- / 0.980	- / -	- / 8.879
Obsolescence/Tech Refresh	0 / 0.393	- / 0.100	- / 0.240	- / 0.280	- / -	- / 0.280	- / 0.280	- / 0.280	- / 0.280	- / 0.280	- / -	- / 12.133
Software/Systems Engineering	0 / 27.710	- / 0.500	- / 0.840	- / 0.980	- / -	- / 0.980	- / 0.980	- / 0.980	- / 0.980	- / 0.980	- / -	- / 33.950
Integrated Logistics Support	0 / 36.790	- / 2.000	- / 3.420	- / 3.990	- / -	- / 3.990	- / 3.990	- / 3.990	- / 3.990	- / 3.990	- / -	- / 62.160
Subtotal: Recurring	- / 68.547	- / 3.500	- / 6.000	- / 7.000	- / -	- / 7.000	- / 7.000	- / 7.000	- / 7.000	- / 7.000	- / -	- / 113.047
Non-Recurring												
BCP Kit Quantity	62 / 29.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 29.435
TCS Kit Quantity	17 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / -
Subtotal: Non-Recurring	- / 29.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.435



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<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10					<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods					<b>Modification Number / Title:</b> C50700 / PATRIOT MODS		
<b>Models of Systems Affected:</b> Various					<b>Modification Type:</b> Various					<b>Related RDT&amp;E PEs:</b>		
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
<i>Subtotal: BCP/TCS/CSM</i>	79 / 97.982	- / 3.500	- / 6.000	- / 7.000	- / -	- / 7.000	- / 7.000	- / 7.000	- / 7.000	- / 7.000	- / -	79 / 142.482
<b>Modification Item 4 of 15:</b> Combined Crypto Modification Phase I (CCMPI)												
A Kits												
Recurring												
Kit Quantity	33 / 11.770	39 / 12.500	78 / 25.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 49.670
Kit Quantity (GFE)	- / -	- / 0.268	- / 0.268	- / 0.268	- / -	- / 0.268	- / -	- / -	- / -	- / -	- / -	- / 0.804
<i>Subtotal: Recurring</i>	- / 11.770	- / 12.768	- / 25.668	- / 0.268	- / -	- / 0.268	- / -	- / -	- / -	- / -	- / -	- / 50.474
Non-Recurring												
Training	- / -	- / 0.132	- / 0.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.264
<i>Subtotal: Non-Recurring</i>	- / -	- / 0.132	- / 0.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.264
<i>Subtotal: Combined Crypto Modification Phase I (CCMPI)</i>	33 / 11.770	39 / 12.900	78 / 25.800	- / 0.268	- / -	- / 0.268	- / -	- / -	- / -	- / -	- / -	150 / 50.738
<b>Modification Item 5 of 15:</b> Radar Digital Processor - Configuration (RDP-C)												
A Kits												
Recurring												
Kit Quantity	67 / 188.766	13 / 52.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 240.766
Fielding	- / -	- / -	- / 4.000	- / 4.000	- / -	- / 4.000	- / 4.000	- / 2.000	- / -	- / -	- / -	- / 14.000
Support Equipment	0 / 10.942	- / 26.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 36.942
<i>Subtotal: Recurring</i>	- / 199.708	- / 78.000	- / 4.000	- / 4.000	- / -	- / 4.000	- / 4.000	- / 2.000	- / -	- / -	- / -	- / 291.708
<i>Subtotal: Radar Digital Processor - Configuration (RDP-C)</i>	67 / 199.708	13 / 78.000	- / 4.000	- / 4.000	- / -	- / 4.000	- / 4.000	- / 2.000	- / -	- / -	- / -	80 / 291.708
<b>Modification Item 6 of 15:</b> Air Defense Artillery School Upgrades/ TADSS												
A Kits												
Recurring												
ELES Kit Quantity	4 / 13.838	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 13.838
Radar Kit Quantity	- / -	- / -	4 / 96.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 96.000
<i>Subtotal: Recurring</i>	- / 13.838	- / -	- / 96.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 109.838
<i>Subtotal: Air Defense Artillery School Upgrades/ TADSS</i>	4 / 13.838	- / -	4 / 96.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 109.838
<b>Modification Item 7 of 15:</b> Modern Manstation (MMS)												
A Kits												
Recurring												

**UNCLASSIFIED**

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				
Models of Systems Affected: Various				Modification Type: Various					Related RDT&E PEs:				
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Fielding	0 / 1.625	- / 3.900	- / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.825	
Support Equipment	0 / 55.842	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 55.842	
Subtotal: Recurring	- / 57.467	- / 3.900	- / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 63.667	
Non-Recurring													
Kit Quantity	82 / 55.842	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / 55.842	
Subtotal: Non-Recurring	- / 55.842	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 55.842	
Subtotal: Modern Manstation (MMS)	82 / 113.309	- / 3.900	- / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / 119.509	
Modification Item 8 of 15: Enhanced Launcher Electronics System (ELES)													
A Kits													
Recurring													
Kit Quantity	197 / 34.304	- / -	8 / 33.000	- / -	- / -	- / -	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	- / -	- / -	14 / 1.976	- / -	14 / 1.976	7 / 2.371	8 / 0.659	1 / 0.082	- / -	- / -	34 / 5.636	
Support	0 / 1.799	- / -	- / -	- / 5.958	- / -	- / 5.958	- / 8.419	- / 2.181	- / 0.427	- / -	- / -	- / 18.784	
Integrated Logistics Support	0 / 1.048	- / -	- / -	- / 2.186	- / -	- / 2.186	- / 2.581	- / 2.581	- / 1.582	- / -	- / -	- / 9.978	
Training	0 / 0.089	- / -	- / -	- / 0.113	- / -	- / 0.113	- / 0.172	- / 0.055	- / 0.028	- / -	- / -	- / 0.457	
Equipment	0 / 0.859	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.859	
Subtotal: Recurring	- / 4.343	- / -	- / -	- / 10.233	- / -	- / 10.233	- / 13.543	- / 5.476	- / 2.119	- / -	- / -	- / 35.714	
Non-Recurring													
Kit Quantity TROPO	10 / 4.689	- / -	- / -	30 / 15.367	- / -	30 / 15.367	18 / 19.887	18 / 5.424	6 / 0.181	- / -	- / -	82 / 45.548	
Subtotal: Non-Recurring	- / 4.689	- / -	- / -	- / 15.367	- / -	- / 15.367	- / 19.887	- / 5.424	- / 0.181	- / -	- / -	- / 45.548	
Subtotal: SNAP/TROPO	14 / 9.032	- / -	- / -	44 / 25.600	- / -	44 / 25.600	25 / 33.430	26 / 10.900	7 / 2.300	- / -	- / -	116 / 81.262	
Modification Item 10 of 15: PATRIOT Maintenance Trainer (PMT)													
A Kits													
Recurring													
Kit Quantity	- / -	1 / 15.941	- / -	1 / 15.000	- / -	1 / 15.000	2 / 27.000	- / -	- / -	1 / 10.000	- / -	5 / 67.941	
Subtotal: Recurring	- / -	- / 15.941	- / -	- / 15.000	- / -	- / 15.000	- / 27.000	- / -	- / -	- / 10.000	- / -	- / 67.941	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10					<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods					<b>Modification Number / Title:</b> C50700 / PATRIOT MODS		
<b>Models of Systems Affected:</b> Various					<b>Modification Type:</b> Various					<b>Related RDT&amp;E PEs:</b>		
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Non-Recurring												
Training Support	- / -	- / -	- / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.000
Subtotal: Non-Recurring	- / -	- / -	- / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 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 / 71.941
<b>Modification Item 11 of 15:</b> PATRIOT Multi-Echelon Training (PMET)												
A Kits												
Recurring												
Kit Quantity	- / -	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 / 47.780
Subtotal: Recurring	- / -	- / 6.497	- / 4.383	- / 5.300	- / -	- / 5.300	- / 5.600	- / 6.000	- / 10.000	- / 10.000	- / -	- / 47.780
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 / 47.780
<b>Modification Item 12 of 15:</b> Reconfigurable Table Top Trainers (RT3)												
A Kits												
Recurring												
Kit Quantity	- / -	- / -	- / -	34 / 7.500	- / -	34 / 7.500	- / -	70 / 15.000	- / -	- / -	- / -	104 / 22.500
Subtotal: Recurring	- / -	- / -	- / -	- / 7.500	- / -	- / 7.500	- / -	- / 15.000	- / -	- / -	- / -	- / 22.500
Subtotal: Reconfigurable Table Top Trainers (RT3)	- / -	- / -	- / -	34 / 7.500	- / -	34 / 7.500	- / -	70 / 15.000	- / -	- / -	- / -	104 / 22.500
<b>Modification Item 13 of 15:</b> Assured PNT												
A Kits												
Recurring												
Hardware Integration	- / -	- / -	- / -	615 / 3.000	- / -	615 / 3.000	- / -	- / -	- / -	- / -	- / -	615 / 3.000
Subtotal: Recurring	- / -	- / -	- / -	- / 3.000	- / -	- / 3.000	- / -	- / -	- / -	- / -	- / -	- / 3.000
Subtotal: Assured PNT	- / -	- / -	- / -	615 / 3.000	- / -	615 / 3.000	- / -	- / -	- / -	- / -	- / -	615 / 3.000
<b>Modification Item 14 of 15:</b> Test Detachment												
A Kits												
Recurring												
Equipment	- / -	- / -	- / -	1 / 49.409	- / -	1 / 49.409	- / 6.591	- / -	- / -	- / -	- / -	1 / 56.000
Subtotal: Recurring	- / -	- / -	- / -	- / 49.409	- / -	- / 49.409	- / 6.591	- / -	- / -	- / -	- / -	- / 56.000
Subtotal: Test Detachment	- / -	- / -	- / -	1 / 49.409	- / -	1 / 49.409	- / 6.591	- / -	- / -	- / -	- / -	1 / 56.000
<b>Modification Item 15 of 15:</b> Digital Sidelobe Cancellor (DSLCL)												
A Kits												

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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				
Models of Systems Affected: Various			Modification Type: Various						Related RDT&E PEs:				
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Recurring													
Kit Quantity	- / -	- / -	- / -	5 / 12.900	- / -	5 / 12.900	38 / 77.800	28 / 56.800	10 / 20.800	- / -	- / -	81 / 168.300	
Subtotal: Recurring	- / -	- / -	- / -	- / 12.900	- / -	- / 12.900	- / 77.800	- / 56.800	- / 20.800	- / -	- / -	- / 168.300	
Subtotal: Digital Sidelobe Cancellor (DSLCL)	- / -	- / -	- / -	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 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	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	- / -	59 / 1.232	38 / 0.500	- / -	- / -	- / -	- / -	150 / 2.032	
Modification Item 5 of 15: Radar Digital Processor - Configuration (RDP-C)	62 / 0.000	- / -	4 / -	1 / -	- / -	1 / -	7 / -	6 / -	- / -	- / -	- / -	80 / -	
Modification Item 6 of 15: Air Defense Artillery School Upgrades/ TADSS	0 / 0.000	1 / -	3 / -	1 / -	- / -	1 / -	3 / -	- / -	- / -	- / -	- / -	8 / -	
Modification Item 7 of 15: Modern Manstation (MMS)	16 / 0.000	18 / -	48 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / -	
Modification Item 8 of 15: Enhanced Launcher Electronics System (ELES)	187 / 0.000	10 / -	- / -	8 / -	- / -	8 / -	- / -	25 / -	39 / -	22 / -	86 / -	377 / -	
Modification Item 9 of 15: SNAP/TROPO	0 / 0.000	14 / -	- / -	- / -	- / -	- / -	44 / -	25 / -	26 / -	7 / -	- / -	116 / -	
Modification Item 10 of 15: PATRIOT Maintenance Trainer (PMT)	0 / 0.000	1 / -	- / -	1 / -	- / -	1 / -	2 / -	- / -	- / -	1 / -	- / -	5 / -	
Modification Item 11 of 15: PATRIOT Multi-Echelon Training (PMET)	0 / 0.000	4 / -	4 / -	4 / -	- / -	4 / -	4 / -	4 / -	4 / -	4 / -	- / -	28 / -	
Modification Item 12 of 15: Reconfigurable Table Top Trainers (RT3)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	34 / -	- / -	70 / -	- / -	- / -	104 / -	
Modification Item 13 of 15: Assured PNT	0 / 0.000	- / -	- / -	615 / -	- / -	615 / -	- / -	- / -	- / -	- / -	- / -	615 / -	
Modification Item 14 of 15: Test Detachment	0 / 0.000	- / -	- / -	1 / -	- / -	1 / -	- / -	- / -	- / -	- / -	- / -	1 / -	
Modification Item 15 of 15: Digital Sidelobe Cancellor (DSLCL)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	5 / -	38 / -	28 / -	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	

**UNCLASSIFIED**

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

**Modification Item 1 of 15:** RAM Mods

**Manufacturer Information**

Manufacturer Name: Raytheon				Manufacturer Location: Andover, MA			
Administrative 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

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	6,296 / 151.613	44 / 0.000	42 / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	6,382 / 151.613
FY 2015	0 / 0.000	- / -	46 / -	44 / -	- / -	44 / -	- / -	- / -	- / -	- / -	- / -	90 / -
FY 2016	0 / 0.000	- / -	- / -	56 / -	- / -	56 / -	54 / -	- / -	- / -	- / -	- / -	110 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	66 / -	63 / -	- / -	- / -	- / -	129 / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	63 / -	68 / -	- / -	- / -	131 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	64 / -	62 / -	- / -	126 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / -	80 / -	162 / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	145 / -	145 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6,838 / -	6,838 / -
Total	6,296 / 151.613	44 / -	88 / -	100 / -	- / -	100 / -	120 / -	126 / -	132 / -	144 / -	7,063 / -	14,113 / 151.613

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
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

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016																						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10					<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods					<b>Modification Number / Title:</b> C50700 / PATRIOT MODS																						
<b>Modification Item 2 of 15:</b> Recapitalization																																
<b>Manufacturer Information</b>																																
Manufacturer Name: Various												Manufacturer Location: Various																				
Administrative Leadtime (in Months): 6												Production Leadtime (in Months): 12																				
<b>Dates</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>																									
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																									
<b>Installation Information</b>																																
<b>Method of Implementation:</b> Various																																
<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>																				
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																				
Prior Years	10 / 208.359	1 / 1.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	11 / 209.359																			
FY 2015	2 / 2.932	- / -	1 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.932																			
FY 2016	0 / 0.000	- / -	- / -	1 / 0.985	- / -	1 / 0.985	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.985																			
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	1 / 1.100	- / -	- / -	- / -	- / -	- / -	1 / 1.100																			
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.200	- / -	- / -	- / -	- / -	1 / 1.200																			
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.400	- / -	- / -	- / -	1 / 1.400																			
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.500	- / -	- / -	1 / 1.500																			
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -	- / -	1 / -																			
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / -	- / -	10 / -																			
Total	12 / 211.291	1 / 1.000	1 / 1.000	1 / 0.985	- / -	1 / 0.985	1 / 1.100	1 / 1.200	1 / 1.400	1 / 1.500	11 / -	- / -	30 / 219.476																			
<b>Installation Schedule</b>																																
	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>TC</b>	<b>Tot</b>	
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>			
In	12	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	11	30
Out	11	-	1	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	12	30	

**UNCLASSIFIED**

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

**Modification Item 3 of 15:** BCP/TCS/CSM

**Manufacturer Information**

Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
<b>Dates</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Contract Dates							
Delivery Dates							

**Installation Information**

**Method of Implementation:** various

<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	79 / 1,344.075	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	79 / 1,344.075
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	79 / 1,344.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 1,344.075

**Installation Schedule**

	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79
Out	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016																					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10					<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods					<b>Modification Number / Title:</b> C50700 / PATRIOT MODS																					
<b>Modification Item 4 of 15:</b> Combined Crypto Modification Phase I (CCMPI)																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Raytheon										Manufacturer Location: Andover, MA																					
Administrative Leadtime (in Months): 3										Production Leadtime (in Months): 12																					
<b>Dates</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>																								
Contract Dates	Dec 2014	Dec 2015																													
Delivery Dates	Dec 2015	Dec 2016																													
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Lead Logistics Fielding Team																															
<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years	0 / 0.000	17 / 0.100	16 / 0.100	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	33 / 0.200																			
FY 2015	0 / 0.000	- / -	20 / 0.100	19 / 0.397	- / -	19 / 0.397	- / -	- / -	- / -	- / -	- / -	39 / 0.497																			
FY 2016	0 / 0.000	- / -	- / -	40 / 0.835	- / -	40 / 0.835	38 / 0.500	- / -	- / -	- / -	- / -	78 / 1.335																			
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total	0 / 0.000	17 / 0.100	36 / 0.200	59 / 1.232	- / -	59 / 1.232	38 / 0.500	- / -	- / -	- / -	- / -	150 / 2.032																			
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
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



**UNCLASSIFIED**

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

**Modification Item 5 of 15:** Radar Digital Processor - Configuration (RDP-C)

**Manufacturer Information**

Manufacturer Name: Raytheon				Manufacturer Location: Andover, MA			
Administrative Leadtime (in Months): 8				Production Leadtime (in Months): 20			
<b>Dates</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Contract Dates	May 2015						
Delivery Dates	Dec 2017						

**Installation Information**

**Method of Implementation:** Various

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	62 / 0.000	- / 0.000	4 / 0.000	1 / 0.000	- / -	1 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	67 / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	7 / -	6 / -	- / -	- / -	- / -	13 / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	62 / 0.000	- / -	4 / -	1 / -	- / -	1 / -	7 / -	6 / -	- / -	- / -	- / -	80 / -

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	62	-	-	-	-	5	-	-	-	-	-	-	-	4	4	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	80
Out	62	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	4	4	3	2	-	-	-	-	-	-	-	-	-	-	80

**UNCLASSIFIED**

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

**Modification Item 6 of 15:** Air Defense Artillery School Upgrades/ TADSS

**Manufacturer Information**

Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 18			
<b>Dates</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Contract Dates		Mar 2016					
Delivery Dates		Sep 2017					

**Installation Information**

**Method of Implementation:** various

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

**Installation Schedule**

	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	-	-	-	-	1	1	1	1	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	-	-	-	-	1	1	1	1	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8

**UNCLASSIFIED**

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

**Modification Item 7 of 15:** Modern Manstation (MMS)

**Manufacturer Information**

Manufacturer Name: Raytheon			Manufacturer Location: Andover, 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

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	16	6	6	6	6	14	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82
Out	16	-	6	6	6	6	14	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016																						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10										<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods										<b>Modification Number / Title:</b> C50700 / PATRIOT MODS												
<b>Modification Item 8 of 15:</b> Enhanced Launcher Electronics System (ELES)																																
<b>Manufacturer Information</b>																																
Manufacturer Name: Various															Manufacturer Location: Various																	
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 18																	
<b>Dates</b>		<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>						
Contract Dates						Dec 2015								Dec 2017				Dec 2018				Dec 2019				Dec 2020						
Delivery Dates						Jun 2017								Jun 2019				Jun 2020				Jun 2021				Jun 2022						
<b>Installation Information</b>																																
<b>Method of Implementation:</b> contractor team																																
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>		<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021</b>		<b>To Complete</b>		<b>Total</b>								
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		187 / 0.000		10 / 0.000		- / 0.000		- / 0.000		- / -		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		197 / 0.000						
FY 2015		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2016		0 / 0.000		- / -		- / -		8 / -		- / -		8 / -		- / -		- / -		- / -		- / -		- / -		- / -		8 / -						
FY 2017		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2018		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		25 / -		- / -		- / -		- / -		- / -		25 / -						
FY 2019		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		39 / -		- / -		- / -		- / -		39 / -						
FY 2020		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		22 / -		- / -		- / -		22 / -						
FY 2021		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		15 / -		- / -		15 / -						
To Complete		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		71 / -		- / -		71 / -						
Total		187 / 0.000		10 / -		- / -		8 / -		- / -		8 / -		- / -		25 / -		39 / -		22 / -		86 / -		- / -		377 / -						
<b>Installation Schedule</b>																																
	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>TC</b>	<b>Tot</b>	
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>			
In	187	-	-	10	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	25	-	-	-	20	19	-	-	22	-	86	377
Out	187	-	-	10	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	25	-	-	-	20	19	-	-	22	-	86	377

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016																					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10										<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods										<b>Modification Number / Title:</b> C50700 / PATRIOT MODS											
<b>Modification Item 9 of 15:</b> SNAP/TROPO																															
<b>Manufacturer Information</b>																															
Manufacturer Name: TeleCommunication Systems (TCS)															Manufacturer Location: Tampa, FL																
Administrative Leadtime (in Months):															Production Leadtime (in Months): 9																
<b>Dates</b>		<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>					
Contract Dates		Oct 2014												Oct 2017				Oct 2018				Oct 2019				Oct 2020					
Delivery Dates		Jun 2015												Jun 2018				Jun 2019				Jun 2020				Jun 2021					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Depot, PM, contractor team																															
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>		<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021</b>		<b>To Complete</b>		<b>Total</b>							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		0 / 0.000		14 / 0.000		- / 0.000		- / 0.000		- / -		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		14 / 0.000							
FY 2015		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2016		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2017		0 / 0.000		- / -		- / -		- / -		- / -		- / -		44 / -		- / -		- / -		- / -		- / -		44 / -							
FY 2018		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		25 / -		- / -		- / -		- / -		25 / -							
FY 2019		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		26 / -		- / -		- / -		26 / -							
FY 2020		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		7 / -		- / -		7 / -							
FY 2021		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		0 / 0.000		14 / -		- / -		- / -		- / -		- / -		44 / -		25 / -		26 / -		7 / -		- / -		116 / -							
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>					
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>TC</b>	<b>Tot</b>
In	-	-	14	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-	25	-	-	-	26	-	-	-	7	-	-	-	116
Out	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-	25	-	-	-	26	-	-	-	7	-	-	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016																					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10										<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods										<b>Modification Number / Title:</b> C50700 / PATRIOT MODS											
<b>Modification Item 10 of 15:</b> PATRIOT Maintenance Trainer (PMT)																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Raytheon															Manufacturer Location: Tewksbury, MA																
Administrative Leadtime (in Months): 4															Production Leadtime (in Months): 4																
<b>Dates</b>		<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>					
Contract Dates		Feb 2015								Feb 2017				Feb 2018												Feb 2021					
Delivery Dates		Jun 2015								Jun 2017				Jun 2018												Jun 2021					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> PM office, contractor team																															
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>		<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021</b>		<b>To Complete</b>		<b>Total</b>							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		0 / 0.000		- / 0.000		- / 0.000		- / 0.000		- / -		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000					
FY 2015		0 / 0.000		1 / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		1 / -					
FY 2016		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		0 / 0.000		- / -		- / -		1 / -		- / -		1 / -		- / -		- / -		- / -		- / -		- / -		- / -		1 / -					
FY 2018		0 / 0.000		- / -		- / -		- / -		- / -		- / -		2 / -		- / -		- / -		- / -		- / -		- / -		2 / -					
FY 2019		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2021		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		1 / -		- / -		1 / -					
To Complete		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		0 / 0.000		1 / -		- / -		1 / -		- / -		1 / -		2 / -		- / -		- / -		- / -		1 / -		- / -		5 / -					
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-		
Out	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-		

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016																						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10										<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods										<b>Modification Number / Title:</b> C50700 / PATRIOT MODS												
<b>Modification Item 11 of 15:</b> PATRIOT Multi-Echelon Training (PMET)																																
<b>Manufacturer Information</b>																																
Manufacturer Name: Raytheon															Manufacturer Location: Tewksbury, MA																	
Administrative Leadtime (in Months): 4															Production Leadtime (in Months): 4																	
<b>Dates</b>		<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017</b>			<b>FY 2018</b>			<b>FY 2019</b>			<b>FY 2020</b>			<b>FY 2021</b>												
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												
<b>Installation Information</b>																																
<b>Method of Implementation:</b> PM team, contractor team																																
<b>Installation Cost</b>		<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>																			
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years		0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000																			
FY 2015		0 / 0.000	4 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / -																			
FY 2016		0 / 0.000	- / -	4 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / -																			
FY 2017		0 / 0.000	- / -	- / -	4 / -	- / -	4 / -	- / -	- / -	- / -	- / -	- / -	4 / -																			
FY 2018		0 / 0.000	- / -	- / -	- / -	- / -	- / -	4 / -	- / -	- / -	- / -	- / -	4 / -																			
FY 2019		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	4 / -	- / -	- / -	- / -	4 / -																			
FY 2020		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / -	- / -	- / -	4 / -																			
FY 2021		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / -	- / -	4 / -																			
To Complete		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total		0 / 0.000	4 / -	4 / -	4 / -	- / -	4 / -	4 / -	4 / -	4 / -	4 / -	- / -	28 / -																			
<b>Installation Schedule</b>																																
	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>TC</b>	<b>Tot</b>	
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>			
In	-	-	-	4	-	-	-	-	4	-	-	-	-	4	-	-	-	-	4	-	-	-	-	4	-	-	-	-	4	-	-	28
Out	-	-	-	4	-	-	-	-	4	-	-	-	-	4	-	-	-	-	4	-	-	-	-	4	-	-	-	-	4	-	-	28

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016																					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10										<b>P-1 Line Item Number / Title:</b> C50700 / Patriot Mods										<b>Modification Number / Title:</b> C50700 / PATRIOT MODS											
<b>Modification Item 12 of 15:</b> Reconfigurable Table Top Trainers (RT3)																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Raytheon															Manufacturer Location: Tewksbury, MA																
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 9																
<b>Dates</b>		<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>					
Contract Dates										Dec 2016								Dec 2018													
Delivery Dates										Oct 2017								Oct 2019													
<b>Installation Information</b>																															
<b>Method of Implementation:</b> PM office and contractor team																															
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>		<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021</b>		<b>To Complete</b>		<b>Total</b>							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		0 / 0.000		- / 0.000		- / 0.000		- / 0.000		- / -		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000					
FY 2015		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2016		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		0 / 0.000		- / -		- / -		- / -		- / -		- / -		34 / -		- / -		- / -		- / -		- / -		- / -		34 / -					
FY 2018		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		70 / -		- / -		- / -		- / -		70 / -					
FY 2020		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2021		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		0 / 0.000		- / -		- / -		- / -		- / -		- / -		34 / -		- / -		70 / -		- / -		- / -		- / -		104 / -					
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	8	8	-	-	-	-	18	18	17	17	-	-	-	-	-	104
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	8	8	-	-	-	-	18	18	17	17	-	-	-	-	-	104



**UNCLASSIFIED**

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

**Modification Item 13 of 15:** Assured PNT

**Manufacturer Information**

Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
<b>Dates</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Contract Dates							
Delivery Dates							

**Installation Information**

**Method of Implementation:** To Complete

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	-	-	-	-	-	-	-	-	-	-	615	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	615
Out	-	-	-	-	-	-	-	-	-	-	615	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	615

**UNCLASSIFIED**

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

**Modification Item 14 of 15:** Test Detachment

**Manufacturer Information**

Manufacturer Name: TBD			Manufacturer Location: TBD		
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:** To Complete

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

**UNCLASSIFIED**

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

**Modification Item 15 of 15:** Digital Sidelobe Cancellor (DSLCL)

**Manufacturer Information**

Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in 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

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	38	-	-	-	28	-	-	-	10	81	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	38	-	-	-	28	10	81	

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications							<b>P-1 Line Item Number / Title:</b> CA6700 / ATACMS MODS					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0203802A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	20.119	150.043	-	150.043	62.668	16.217	-	-	-	249.047
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	20.119	150.043	-	150.043	62.668	16.217	-	-	-	249.047
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>20.119</b>	<b>150.043</b>	-	<b>150.043</b>	<b>62.668</b>	<b>16.217</b>	-	-	-	<b>249.047</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	819.907	-	819.907	-	-	-	-	-	24,904.700
<p><b>Description:</b>  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.</p> <p>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.</p> <p>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).</p> <p>ATACMS modifications will be performed by Lockheed Martin in Camden, Arkansas.</p>												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
Army	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	-	20.119	150.043	-	150.043	62.668	16.217	-	-	-	
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-	-	
	<b>Total Obligation Authority</b>	-	<b>20.119</b>	<b>150.043</b>	-	<b>150.043</b>	<b>62.668</b>	<b>16.217</b>	-	-	-	

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications					<b>P-1 Line Item Number / Title:</b> CA6700 / ATACMS MODS				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0203802A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	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
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / -</b>	<b>- / 20.119</b>	<b>- / 150.043</b>	<b>- / -</b>	<b>- / 150.043</b>

  

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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	CA6700 / Army Tactical Missile System (ATACMS) Modifications (Unclassified)			- / 62.668	- / 16.217	- / -	- / -	- / -	- / 249.047
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 62.668</b>	<b>- / 16.217</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 249.047</b>

\*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.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10	<b>P-1 Line Item Number / Title:</b> CA6700 / ATACMS MODS	<b>Modification Number / Title:</b> CA6700 / Army Tactical Missile System (ATACMS) 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)	-	-	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 Summary rows are for informational purposes only. The corresponding budget requests are documented 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.

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	20.119	150.043	-	150.043	62.668	16.217	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	<b>20.119</b>	<b>150.043</b>	-	<b>150.043</b>	<b>62.668</b>	<b>16.217</b>	-	-

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10					<b>P-1 Line Item Number / Title:</b> CA6700 / ATACMS MODS					<b>Modification Number / Title:</b> CA6700 / Army Tactical Missile System (ATACMS) Modifications			
<b>Models of Systems Affected:</b> ATACMS				<b>Modification Type:</b> Unclassified					<b>Related RDT&amp;E PEs:</b>				
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> CM Compliant Warhead													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	183 / 119.471	- / -	183 / 119.471	58 / 57.603	- / 16.217	- / -	- / -	- / -	241 / 193.291	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 119.471	- / -	- / 119.471	- / 57.603	- / 16.217	- / -	- / -	- / -	- / 193.291	
Non-Recurring													
Startup/Tooling	- / -	- / -	- / 20.119	- / 14.903	- / -	- / 14.903	- / -	- / -	- / -	- / -	- / -	- / 35.022	
<i>Subtotal: Non-Recurring</i>	- / -	- / -	- / 20.119	- / 14.903	- / -	- / 14.903	- / -	- / -	- / -	- / -	- / -	- / 35.022	
<i>Subtotal: CM Compliant Warhead</i>	- / -	- / -	- / 20.119	183 / 134.374	- / -	183 / 134.374	58 / 57.603	- / 16.217	- / -	- / -	- / -	241 / 228.313	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 20.119	183 / 134.374	- / -	183 / 134.374	58 / 57.603	- / 16.217	- / -	- / -	- / -	241 / 228.313	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> CM Compliant Warhead													
	- / -	- / -	- / -	183 / 15.669	- / -	183 / 15.669	58 / 5.065	- / -	- / -	- / -	- / -	241 / 20.734	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	183 / 15.669	- / -	183 / 15.669	58 / 5.065	- / -	- / -	- / -	- / -	241 / 20.734	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	-	20.119	150.043	-	150.043	62.668	16.217	-	-	-	249.047	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army				<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10		<b>P-1 Line Item Number / Title:</b> CA6700 / ATACMS MODS			<b>Modification Number / Title:</b> CA6700 / Army Tactical Missile System (ATACMS) Modifications		

**Modification Item 1 of 1:** CM Compliant Warhead

**Manufacturer Information**

Manufacturer Name: Lockheed Martin				Manufacturer Location: Camden, AR			
Administrative Leadtime (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

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	-	-	-	-	-	-	-	-	-	-	183	-	-	-	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	241	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	46	46	46	15	15	14	14	-	-	-	-	-	-	241	



**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications							<b>P-1 Line Item Number / Title:</b> C57701 / GMLRS MOD					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A					<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	138	612	-	750
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>18.221</b>	<b>0.395</b>	-	<b>0.395</b>	<b>0.531</b>	<b>0.269</b>	<b>25.530</b>	<b>66.482</b>	-	<b>111.428</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	185.000	108.631	-	148.571
<p><b>Description:</b></p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
Army	Quantity	-	-	-	-	-	-	-	138	612		
	Total Obligation Authority	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482		
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-	-	-	<b>138</b>	<b>612</b>		
	Total Obligation Authority	-	<b>18.221</b>	<b>0.395</b>	-	<b>0.395</b>	<b>0.531</b>	<b>0.269</b>	<b>25.530</b>	<b>66.482</b>		

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications					<b>P-1 Line Item Number / Title:</b> C57701 / GMLRS MOD				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C57701 / Guided Multiple Launch Rocket System (GMLRS) Unitary Modification (Unclassified)			- / -	- / -	- / 18.221	- / 0.395	- / -	- / 0.395
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / -</b>	<b>- / 18.221</b>	<b>- / 0.395</b>	<b>- / -</b>	<b>- / 0.395</b>

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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C57701 / Guided Multiple Launch Rocket System (GMLRS) Unitary Modification (Unclassified)			- / 0.531	- / 0.269	138 / 25.530	612 / 66.482	- / -	750 / 111.428
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 0.531</b>	<b>- / 0.269</b>	<b>138 / 25.530</b>	<b>612 / 66.482</b>	<b>- / -</b>	<b>750 / 111.428</b>

\*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.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army								<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10				<b>P-1 Line Item Number / Title:</b> C57701 / GMLRS MOD				<b>Modification Number / Title:</b> C57701 / Guided Multiple Launch Rocket System (GMLRS) Unitary Modification			

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 ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	138	612	-	750
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	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, materiel deficiencies identified in the field, obsolescence issues, emerging technologies, Crew recommendations, and software upgrades/improvements.

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

**UNCLASSIFIED**

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: C57701 / GMLRS MOD				Modification Number / Title: C57701 / Guided Multiple Launch Rocket System (GMLRS) Unitary Modification					
Models of Systems Affected: TBD				Modification Type: Unclassified				Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: GMLRS UNITARY/AW Conversion													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 22.252	612 / 57.988	- / -	750 / 80.240	
Government Test	- / -	- / -	- / -	- / 0.395	- / -	- / 0.395	- / 0.531	- / 0.269	- / 3.278	- / 6.935	- / -	- / 11.408	
Facilitization	- / -	- / -	- / 18.221	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.221	
Subtotal: Recurring	- / -	- / -	- / 18.221	- / 0.395	- / -	- / 0.395	- / 0.531	- / 0.269	- / 25.530	- / 64.923	- / -	- / 109.869	
Subtotal: GMLRS UNITARY/AW Conversion	- / -	- / -	- / 18.221	- / 0.395	- / -	- / 0.395	- / 0.531	- / 0.269	138 / 25.530	612 / 64.923	- / -	750 / 109.869	
Subtotal: Procurement, All Modification Items	- / -	- / -	- / 18.221	- / 0.395	- / -	- / 0.395	- / 0.531	- / 0.269	138 / 25.530	612 / 64.923	- / -	750 / 109.869	
Installation													
Modification Item 1 of 1: GMLRS UNITARY/AW Conversion	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 1.559	- / -	138 / 1.559	
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 1.559	- / -	138 / 1.559	
Total													
Total Cost (Procurement + Support + Installation)	-	-	18.221	0.395	-	0.395	0.531	0.269	25.530	66.482	-	111.428	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10	<b>P-1 Line Item Number / Title:</b> C57701 / GMLRS MOD	<b>Modification Number / Title:</b> C57701 / Guided Multiple Launch Rocket System (GMLRS) Unitary Modification

**Modification Item 1 of 1:** GMLRS UNITARY/AW Conversion

**Manufacturer Information**

Manufacturer Name: Lockheed Martin	Manufacturer Location: Camden, AR
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 17

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates						Dec 2019	Dec 2020
Delivery Dates						Mar 2020	Mar 2021

**Installation Information**

**Method of Implementation:** TBD

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 1.559	- / -	138 / 1.559
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 1.559	- / -	138 / 1.559

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	138	-	-	-	612	-	-	-	750	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	69	612	750	

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications							<b>P-1 Line Item Number / Title:</b> C20000 / Stinger Mods					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0203801A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	850	-	-	-	-	-	-	-	-	-	-	850
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	238.894	1.355	2.216	-	-	-	-	-	-	-	-	242.465
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	238.894	1.355	2.216	-	-	-	-	-	-	-	-	242.465
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>238.894</b>	<b>1.355</b>	<b>2.216</b>	-	-	-	-	-	-	-	-	<b>242.465</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	281.052	-	-	-	-	-	-	-	-	-	-	285.253
<p><b>Description:</b></p> <p>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.</p> <p>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.</p> <p>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.</p>												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
Army	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	1.355	2.216	-	-	-	-	-	-	-	-	
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-	-	
	<b>Total Obligation Authority</b>	<b>1.355</b>	<b>2.216</b>	-	-	-	-	-	-	-	-	

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications					<b>P-1 Line Item Number / Title:</b> C20000 / Stinger Mods				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0203801A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> 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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C21300 / Stinger Service Life Extension Program (SLEP) (TBD)			850 / 238.892	- / 1.355	- / 2.216	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>850 / 238.894</b>	<b>- / 1.355</b>	<b>- / 2.216</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>

  

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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C21300 / Stinger Service Life Extension Program (SLEP) (TBD)			- / -	- / -	- / -	- / -	- / -	850 / 242.463
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>850 / 242.465</b>

\*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.

## UNCLASSIFIED

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10				<b>P-1 Line Item Number / Title:</b> C20000 / Stinger Mods						<b>Modification Number / Title:</b> C21300 / Stinger Service Life Extension Program (SLEP)		
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	850	-	-	-	-	-	-	-	-	-	-	850
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	238.892	1.355	2.216	-	-	-	-	-	-	-	-	242.463
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	238.892	1.355	2.216	-	-	-	-	-	-	-	-	242.463
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>238.892</b>	<b>1.355</b>	<b>2.216</b>	-	-	-	-	-	-	-	-	<b>242.463</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	281.049	-	-	-	-	-	-	-	-	-	-	285.251
<p><b>Description:</b></p> <p>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.</p> <p>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.</p> <p>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.</p>												



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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10				<b>P-1 Line Item Number / Title:</b> C20000 / Stinger Mods						<b>Modification Number / Title:</b> C21300 / Stinger Service Life Extension Program (SLEP)			
<b>Models of Systems Affected:</b> FIM-92E Stinger Block I Missile				<b>Modification Type:</b> TBD						<b>Related RDT&amp;E PEs:</b>			
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<b>Procurement</b>													
<i>Modification Item 1 of 1:</i> Stinger Service Life Extension Program (SLEP)													
A Kits													
Recurring													
Hardware	850 / 231.982	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	850 / 231.982	
Engineering Services	0 / 0.762	- / 0.252	- / 0.489	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.503	
Govt PM/Admin Support	0 / 1.651	- / 0.390	- / 0.381	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.422	
Other Flyaway Support	0 / 4.497	- / 0.399	- / 1.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.919	
<i>Subtotal: Recurring</i>	<i>- / 238.892</i>	<i>- / 1.041</i>	<i>- / 1.893</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 241.826</i>	
<i>Subtotal: Stinger Service Life Extension Program (SLEP)</i>	<i>850 / 238.892</i>	<i>- / 1.041</i>	<i>- / 1.893</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>850 / 241.826</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>850 / 238.892</i>	<i>- / 1.041</i>	<i>- / 1.893</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>850 / 241.826</i>	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> Stinger Service Life Extension Program (SLEP)	0 / 0.000	425 / 0.314	425 / 0.323	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	850 / 0.637	
<i>Subtotal: Installation</i>	<i>0 / 0.000</i>	<i>425 / 0.314</i>	<i>425 / 0.323</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>850 / 0.637</i>	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>238.892</b>	<b>1.355</b>	<b>2.216</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>242.463</b>	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10	<b>P-1 Line Item Number / Title:</b> C20000 / Stinger Mods	<b>Modification Number / Title:</b> C21300 / Stinger Service Life Extension Program (SLEP)

**Modification Item 1 of 1:** Stinger Service Life Extension Program (SLEP)

**Manufacturer Information**

Manufacturer Name: McAlester Army Ammunition Plant	Manufacturer Location: 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

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	850
Out	-	-	-	-	425	425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	850

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications	<b>P-1 Line Item Number / Title:</b> CE8710 / AVENGER MODS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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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 ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	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 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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications						<b>P-1 Line Item Number / Title:</b> CE8710 / AVENGER MODS				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A								
<p>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).</p>										
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
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	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>5.611</b>	<b>6.171</b>	<b>33.606</b>	-	<b>33.606</b>	<b>63.123</b>	<b>31.434</b>	<b>1.397</b>	<b>1.324</b>

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications					<b>P-1 Line Item Number / Title:</b> CE8710 / AVENGER MODS				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	CE8710 / Avenger Modification (Operational)			- / -	- / 5.611	- / 6.171	- / 33.606	- / -	- / 33.606
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / 5.611</b>	<b>- / 6.171</b>	<b>- / 33.606</b>	<b>- / -</b>	<b>- / 33.606</b>

  

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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	CE8710 / Avenger Modification (Operational)			- / 63.123	- / 31.434	- / 1.397	- / 1.324	Continuing	Continuing
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 63.123</b>	<b>- / 31.434</b>	<b>- / 1.397</b>	<b>- / 1.324</b>	<b>Continuing</b>	<b>Continuing</b>

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

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 ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	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.

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
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	-	-
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>5.611</b>	<b>6.171</b>	<b>33.606</b>	-	<b>33.606</b>	<b>63.123</b>	<b>31.434</b>	<b>1.397</b>	<b>1.324</b>

**UNCLASSIFIED**

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 Slew-to-Cue Systems				Modification Type: Operational				Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 6: M3P Machine Gun													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	126 / 5.531	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	126 / 5.531	
Engineering Services	- / -	- / -	- / 0.062	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.062	
Gov't SEPM	- / -	- / -	- / 0.102	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.102	
Interim Contractor Support	- / -	- / -	- / 0.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.236	
Spares/Repairs	- / -	- / -	- / 0.187	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.187	
Subtotal: Recurring	- / -	- / -	- / 6.118	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.118	
Subtotal: M3P Machine Gun	- / -	- / -	126 / 6.118	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	126 / 6.118	
Modification Item 2 of 6: Voice Intercommunication System													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	- / -	- / -	- / -	393 / 7.050	- / -	- / -	- / -	- / -	393 / 7.050	
Engineering Services	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.006	- / 0.166	- / -	- / -	- / -	- / 2.172	
New Equipment Training	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.905	- / 0.787	- / -	- / -	- / -	- / 1.692	
Interim Contractor Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.239	- / 0.298	- / -	- / -	- / -	- / 0.537	
Spares/Repair Parts	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.196	- / -	- / -	- / -	- / -	- / 0.196	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.396	- / 1.251	- / -	- / -	- / -	- / 11.647	
Subtotal: Voice Intercommunication System	- / -	- / -	- / -	- / -	- / -	- / -	393 / 10.396	- / 1.251	- / -	- / -	- / -	393 / 11.647	
Modification Item 3 of 6: Avenger Fire Control Computer													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	- / -	- / -	- / -	170 / 6.452	- / -	- / -	- / -	- / -	170 / 6.452	
System Engineering/Program Management	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.427	- / 0.102	- / -	- / -	- / -	- / 0.529	
Spares/Repair Parts	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.648	- / -	- / -	- / -	- / -	- / 0.648	
Transportation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.214	- / -	- / -	- / -	- / 0.214	
New Equipment Training	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.412	- / -	- / -	- / -	- / 0.412	
Engineering Services	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.156	- / 0.030	- / -	- / -	- / -	- / 0.186	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.683	- / 0.758	- / -	- / -	- / -	- / 8.441	

**UNCLASSIFIED**

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 Slew-to-Cue Systems				Modification Type: Operational				Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Subtotal: Avenger Fire Control Computer	- / -	- / -	- / -	- / -	- / -	- / -	170 / 7.683	- / 0.758	- / -	- / -	- / -	170 / 8.441	
Modification Item 4 of 6: Mode 5/Identification Friend or Foe													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	131 / 27.431	- / -	131 / 27.431	161 / 28.798	101 / 17.396	- / -	- / -	- / -	393 / 73.625	
Engineering Services	- / -	- / -	- / -	- / 1.193	- / -	- / 1.193	- / 0.812	- / 0.679	- / -	- / -	- / -	- / 2.684	
Program Management Support	- / -	- / -	- / -	- / 0.260	- / -	- / 0.260	- / 0.293	- / 0.182	- / -	- / -	- / -	- / 0.735	
Transportation	- / -	- / -	- / -	- / 0.216	- / -	- / 0.216	- / 0.245	- / 0.151	- / -	- / -	- / -	- / 0.612	
Interim Contractor Support	- / -	- / -	- / -	- / 2.030	- / -	- / 2.030	- / 2.074	- / 1.336	- / -	- / -	- / -	- / 5.440	
Spares/Repairs	- / -	- / -	- / -	- / 1.136	- / -	- / 1.136	- / 1.371	- / 0.998	- / -	- / -	- / -	- / 3.505	
Subtotal: Recurring	- / -	- / -	- / -	- / 32.266	- / -	- / 32.266	- / 33.593	- / 20.742	- / -	- / -	- / -	- / 86.601	
Subtotal: Mode 5/Identification Friend or Foe	- / -	- / -	- / -	131 / 32.266	- / -	131 / 32.266	161 / 33.593	101 / 20.742	- / -	- / -	- / -	393 / 86.601	
Modification Item 5 of 6: Targeting Console													
A Kits													
Recurring													
Kit Quantity	- / -	170 / 4.077	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 4.077	
Engineering Services	- / -	- / 0.441	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.441	
SE/PM	- / -	- / 0.364	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.364	
Spares/Repairs	- / -	- / 0.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.182	
NET	- / -	- / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.022	
Common Requirements	- / -	- / 0.525	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.525	
Subtotal: Recurring	- / -	- / 5.611	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.611	
Subtotal: Targeting Console	- / -	170 / 5.611	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 5.611	
Modification Item 6 of 6: Environmental Control Unit/ Prime Power Unit													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	- / -	- / -	- / -	50 / 5.876	26 / 3.126	5 / 0.752	4 / 0.687	41 / 4.818	126 / 15.259	
Spares/Repairs	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.588	- / 0.313	- / 0.068	- / 0.054	- / 0.482	- / 1.505	
Transportation	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.588	- / 0.313	- / 0.068	- / 0.054	- / 0.482	- / 1.505	
NET	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.641	- / 0.822	- / 0.081	- / 0.081	- / 1.641	- / 4.266	
Engineering Services	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.115	- / 0.097	- / 0.122	- / 0.134	- / 0.115	- / 0.583	



**UNCLASSIFIED**

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 Slew-to-Cue Systems				Modification Type: Operational				Related RDT&E PEs:				
Financial Plan	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
SE/PM	- / -	- / -	- / -	- / -	- / -	- / -	- / 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												
Modification Item 1 of 6: M3P Machine Gun	- / -	- / -	126 / 0.037	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	126 / 0.037
Modification Item 2 of 6: Voice Intercommunication System	- / -	- / -	- / -	- / -	- / -	- / -	- / -	393 / 1.788	- / -	- / -	- / -	393 / 1.788
Modification Item 3 of 6: Avenger Fire Control Computer	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 0.540	- / -	- / -	- / -	170 / 0.540
Modification Item 4 of 6: Mode 5/Identification Friend or Foe	- / -	- / -	- / -	131 / 1.340	- / -	131 / 1.340	161 / 1.463	101 / 1.025	- / -	- / -	- / -	393 / 3.828
Modification Item 5 of 6: Targeting Console	- / -	- / -	170 / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 0.016
Modification Item 6 of 6: Environmental Control Unit/ Prime Power Unit	- / -	- / -	- / -	- / -	- / -	- / -	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)	-	5.611	6.171	33.606	-	33.606	63.123	31.434	1.397	1.324	Continuing	Continuing

**UNCLASSIFIED**

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

**Modification Item 1 of 6:** M3P Machine Gun

**Manufacturer Information**

Manufacturer Name: FN Herstal			Manufacturer Location: Virginia, South Carolina		
Administrative Leadtime (in Months): 1			Production Leadtime (in 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

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	-	-	-	-	-	-	-	-	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126
Out	-	-	-	-	-	-	-	-	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016																					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10					<b>P-1 Line Item Number / Title:</b> CE8710 / AVENGER MODS					<b>Modification Number / Title:</b> CE8710 / Avenger Modification																					
<b>Modification Item 2 of 6:</b> Voice Intercommunication System																															
<b>Manufacturer Information</b>																															
Manufacturer Name: CECOM Managed Item										Manufacturer Location: Tobyhanna, PA																					
Administrative Leadtime (in Months): 1										Production Leadtime (in Months): 9																					
<b>Dates</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>																								
Contract Dates				Aug 2018																											
Delivery Dates				Oct 2018																											
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Contractor Field Service Representative (CFSR) Installation																															
<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years	- / -	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000																			
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	393 / 1.788	- / -	- / -	- / -	393 / 1.788																			
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	393 / 1.788	- / -	- / -	- / -	393 / 1.788																			
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	106	106	106	-	-	-	-	-	-	-	-	-	393
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	106	106	106	-	-	-	-	-	-	-	-	-	393

**UNCLASSIFIED**

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

**Modification Item 3 of 6:** Avenger Fire Control Computer

**Manufacturer Information**

Manufacturer Name: Boeing			Manufacturer Location: Everett, Washington		
Administrative Leadtime (in Months): 1			Production Leadtime (in 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

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	90	-	-	-	-	-	-	-	-	-	-	170
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	90	-	-	-	-	-	-	-	-	-	-	170

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016																					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10					<b>P-1 Line Item Number / Title:</b> CE8710 / AVENGER MODS					<b>Modification Number / Title:</b> CE8710 / Avenger Modification																					
<b>Modification Item 4 of 6:</b> Mode 5/Identification Friend or Foe																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Boeing										Manufacturer Location: Everett, Washington																					
Administrative Leadtime (in Months): 1										Production Leadtime (in Months): 5																					
<b>Dates</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>																								
Contract Dates			Jan 2017	Nov 2017	Nov 2018																										
Delivery Dates			May 2017	Apr 2018	Apr 2019																										
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Contractor Field Service Representative (CFSR) Installation																															
<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years	- / -	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000																			
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017	- / -	- / -	- / -	131 / 1.340	- / -	131 / 1.340	- / -	- / -	- / -	- / -	- / -	- / -	131 / 1.340																		
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	161 / 1.463	- / -	- / -	- / -	- / -	- / -	161 / 1.463																		
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	101 / 1.025	- / -	- / -	- / -	- / -	101 / 1.025																		
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total	- / -	- / -	- / -	131 / 1.340	- / -	131 / 1.340	161 / 1.463	101 / 1.025	- / -	- / -	- / -	- / -	393 / 3.828																		
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>					
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>TC</b>	<b>Tot</b>
In	-	-	-	-	-	-	-	-	-	-	-	66	65	-	-	81	80	-	-	51	50	-	-	-	-	-	-	-	-	-	393
Out	-	-	-	-	-	-	-	-	-	-	-	66	65	-	-	81	80	-	-	51	50	-	-	-	-	-	-	-	-	-	393

**UNCLASSIFIED**

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

**Modification Item 5 of 6:** Targeting Console

**Manufacturer Information**

Manufacturer Name: Barco						Manufacturer Location: Rancho Cordova, California					
Administrative Leadtime (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

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170
Out	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016																					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10										<b>P-1 Line Item Number / Title:</b> CE8710 / AVENGER MODS										<b>Modification Number / Title:</b> CE8710 / Avenger Modification											
<b>Modification Item 6 of 6:</b> Environmental Control Unit/Prime Power Unit																															
<b>Manufacturer Information</b>																															
Manufacturer Name: AWCF Managed Item- Marvin Land Systems													Manufacturer Location: Inglewood, CA																		
Administrative Leadtime (in Months): 4													Production Leadtime (in Months): 5																		
<b>Dates</b>		<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>					
Contract Dates														Mar 2018				Dec 2018				Oct 2019				Nov 2020					
Delivery Dates														Aug 2018				Sep 2019				Sep 2020				Aug 2021					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Contractor Field Service Representative (CFSR) Installation																															
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>		<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021</b>		<b>To Complete</b>		<b>Total</b>							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / 0.000		- / 0.000		- / 0.000		- / -		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000					
FY 2015		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		50 / 0.642		- / -		- / -		- / -		- / -		- / -		50 / 0.642					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		26 / 0.346		- / -		- / -		- / -		- / -		26 / 0.346					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 0.146		- / -		- / -		- / -		5 / 0.146					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 0.149		- / -		- / -		4 / 0.149					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		41 / 1.527		- / -		41 / 1.527					
Total		- / -		- / -		- / -		- / -		- / -		- / -		50 / 0.642		26 / 0.346		5 / 0.146		4 / 0.149		41 / 1.527		- / -		126 / 2.810					
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	26	-	-	-	5	-	-	-	4	41	126
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	26	-	-	-	5	-	-	-	4	41	126

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications							<b>P-1 Line Item Number / Title:</b> C61700 / ITAS/TOW Mods					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,749.699	19.676	19.576	0.383	-	0.383	-	-	-	-	-	1,789.334
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,749.699	19.676	19.576	0.383	-	0.383	-	-	-	-	-	1,789.334
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1,749.699</b>	<b>19.676</b>	<b>19.576</b>	<b>0.383</b>	<b>-</b>	<b>0.383</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,789.334</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	65.533	-	65.533	-	-	-	-	-	2,105.099
<b>Description:</b> 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.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
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	-	-	-	-	-	-	-	-	
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
	<b>Total Obligation Authority</b>	<b>19.676</b>	<b>19.576</b>	<b>0.383</b>	<b>-</b>	<b>0.383</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications	<b>P-1 Line Item Number / Title:</b> C61700 / ITAS/TOW Mods
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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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)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	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	- / -	- / 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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C61700 / NA (NA)			- / -	- / -	- / -	- / -	- / -	- / 1,789.334
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 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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<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>								<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10				<b>P-1 Line Item Number / Title:</b> C61700 / ITAS/TOW Mods				<b>Modification Number / Title:</b> C61700 / NA			

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 ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,749.699	19.676	19.576	0.383	-	0.383	-	-	-	-	-	1,789.334
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,749.699	19.676	19.576	0.383	-	0.383	-	-	-	-	-	1,789.334
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	1,749.699	19.676	19.576	0.383	-	0.383	-	-	-	-	-	1,789.334
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	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.

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
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	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>19.676</b>	<b>19.576</b>	<b>0.383</b>	<b>-</b>	<b>0.383</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10					<b>P-1 Line Item Number / Title:</b> C61700 / ITAS/TOW Mods					<b>Modification Number / Title:</b> C61700 / NA		
<b>Models of Systems Affected: NA</b>					<b>Modification Type: NA</b>					<b>Related RDT&amp;E PEs:</b>		
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
<b>Procurement</b>												
<i>Modification Item 1 of 1: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)</i>												
A Kits												
Recurring												
Kit Quantity	0 / 1.619	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.619
Equipment	0 / 1,379.037	- / 15.394	- / 15.394	- / 0.302	- / -	- / 0.302	- / -	- / -	- / -	- / -	- / -	- / 1,410.127
Fielding	0 / 79.257	- / 1.622	- / 4.005	- / 0.029	- / -	- / 0.029	- / -	- / -	- / -	- / -	- / -	- / 84.913
Project Management	0 / 117.852	- / 2.660	- / 0.177	- / 0.052	- / -	- / 0.052	- / -	- / -	- / -	- / -	- / -	- / 120.741
Data	0 / 3.097	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.097
<i>Subtotal: Recurring</i>	<i>- / 1,580.862</i>	<i>- / 19.676</i>	<i>- / 19.576</i>	<i>- / 0.383</i>	<i>- / -</i>	<i>- / 0.383</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1,620.497</i>
Non-Recurring												
Training Equipment	0 / 86.712	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 86.712
Production Line Restart	0 / 5.993	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.993
Initial Spares	0 / 76.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 76.132
<i>Subtotal: Non-Recurring</i>	<i>- / 168.837</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 168.837</i>
<i>Subtotal: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)</i>	<i>0 / 1,749.699</i>	<i>- / 19.676</i>	<i>- / 19.576</i>	<i>- / 0.383</i>	<i>- / -</i>	<i>- / 0.383</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1,789.334</i>
<i>Subtotal: Procurement, All Modification Items</i>	<i>0 / 1,749.699</i>	<i>- / 19.676</i>	<i>- / 19.576</i>	<i>- / 0.383</i>	<i>- / -</i>	<i>- / 0.383</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 1,789.334</i>
<b>Installation</b>												
<i>Modification Item 1 of 1: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)</i>												
<i>Subtotal: Installation</i>	<i>0 / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	<b>1,749.699</b>	<b>19.676</b>	<b>19.576</b>	<b>0.383</b>	<b>-</b>	<b>0.383</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,789.334</b>

**UNCLASSIFIED**

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

**Modification Item 1 of 1:** ITAS (IMPROVED TARGET ACQUISITION SYSTEM)

**Manufacturer Information**

Manufacturer Name: Raytheon Network Centric Systems Company				Manufacturer Location: 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

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	1,552	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,552
Out	1,552	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,552

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications							<b>P-1 Line Item Number / Title:</b> C67500 / MLRS Mods					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>399.762</b>	<b>10.380</b>	<b>35.970</b>	<b>34.704</b>	<b>-</b>	<b>34.704</b>	<b>36.771</b>	<b>37.312</b>	<b>46.698</b>	<b>46.968</b>	<b>158.380</b>	<b>806.945</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	2,892.000	-	2,892.000	-	-	-	-	-	949.347
<b>Description:</b> 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.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
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		
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
	<b>Total Obligation Authority</b>	<b>10.380</b>	<b>35.970</b>	<b>34.704</b>	<b>-</b>	<b>34.704</b>	<b>36.771</b>	<b>37.312</b>	<b>46.698</b>	<b>46.968</b>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications					<b>P-1 Line Item Number / Title:</b> C67500 / MLRS Mods				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A							
<b>Exhibits Schedule</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-3a	C67500 / Multiple Launch Rocket System (MLRS) Modifications (.)			- / 399.762	- / 10.380	- / 35.970	- / 34.704	- / -	- / 34.704
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 399.762</b>	<b>- / 10.380</b>	<b>- / 35.970</b>	<b>- / 34.704</b>	<b>- / -</b>	<b>- / 34.704</b>
<b>Exhibits Schedule</b>				<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-3a	C67500 / Multiple Launch Rocket System (MLRS) Modifications (.)			- / 36.771	- / 37.312	- / 46.698	- / 46.968	- / 158.380	- / 806.945
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 36.771</b>	<b>- / 37.312</b>	<b>- / 46.698</b>	<b>- / 46.968</b>	<b>- / 158.380</b>	<b>- / 806.945</b>
*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.									
<p><b>Justification:</b>  FY17 Base procurement dollars in the amount of \$34.704 million facilitates 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.</p> <p>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.</p>									

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<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10	<b>P-1 Line Item Number / Title:</b> C67500 / MLRS Mods	<b>Modification Number / Title:</b> C67500 / Multiple Launch Rocket System (MLRS) Modifications

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>399.762</b>	<b>10.380</b>	<b>35.970</b>	<b>34.704</b>	-	<b>34.704</b>	<b>36.771</b>	<b>37.312</b>	<b>46.698</b>	<b>46.968</b>	<b>158.380</b>	<b>806.945</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	2,892.000	-	2,892.000	-	-	-	-	-	949.347

**Description:**

Modifications of the MLRS System

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
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
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>10.380</b>	<b>35.970</b>	<b>34.704</b>	-	<b>34.704</b>	<b>36.771</b>	<b>37.312</b>	<b>46.698</b>	<b>46.968</b>

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<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>										<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10					<b>P-1 Line Item Number / Title:</b> C67500 / MLRS Mods					<b>Modification Number / Title:</b> C67500 / Multiple Launch Rocket System (MLRS) Modifications			
<b>Models of Systems Affected:</b> M270A1					<b>Modification Type:</b> .					<b>Related RDT&amp;E PEs:</b>			
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
<b>Procurement</b>													
<b>Modification Item 1 of 4:</b> Inactive Mods													
A Kits													
Recurring													
Equipment	9 / 318.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 318.133
<b>Subtotal: Recurring</b>	- / 318.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 318.133
<b>Subtotal: Inactive Mods</b>	9 / 318.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 318.133
<b>Modification Item 2 of 4:</b> Obsolescence Mitigations/ECP Reliability Intg													
A Kits													
Recurring													
Equipment	0 / 36.092	- / 1.400	- / 0.756	- / 0.045	- / -	- / 0.045	- / 1.005	- / 0.832	- / -	- / -	- / -	- / -	- / 40.130
<b>Subtotal: Recurring</b>	- / 36.092	- / 1.400	- / 0.756	- / 0.045	- / -	- / 0.045	- / 1.005	- / 0.832	- / -	- / -	- / -	- / -	- / 40.130
<b>Subtotal: Obsolescence Mitigations/ECP Reliability Intg</b>	0 / 36.092	- / 1.400	- / 0.756	- / 0.045	- / -	- / 0.045	- / 1.005	- / 0.832	- / -	- / -	- / -	- / -	- / 40.130
<b>Modification Item 3 of 4:</b> Improved Armored Cab (IAC)													
A Kits													
Recurring													
Equipment	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	
<b>Subtotal: Recurring</b>	- / 7.716	- / 8.542	- / 21.904	- / 16.169	- / -	- / 16.169	- / 14.466	- / 13.593	- / 23.930	- / 23.818	- / 88.534	- / 218.672	
<b>Subtotal: Improved Armored Cab (IAC)</b>	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	
<b>Modification Item 4 of 4:</b> Fire Control System (FCS) Upgrade													
A Kits													
Recurring													
Equipment	- / -	- / -	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	
<b>Subtotal: Recurring</b>	- / -	- / -	- / 12.346	- / 14.066	- / -	- / 14.066	- / 17.394	- / 19.448	- / 19.538	- / 19.859	- / 69.846	- / 172.497	
<b>Subtotal: Fire Control System (FCS) Upgrade</b>	- / -	- / -	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	
<b>Subtotal: Procurement, All Modification Items</b>	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	
<b>Installation</b>													
<b>Modification Item 1 of 4:</b> Inactive Mods	9 / 37.821	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 37.821
<b>Modification Item 3 of 4:</b> Improved Armored Cab (IAC)	0 / 0.000	9 / 0.438	7 / 0.538	6 / 3.927	- / -	6 / 3.927	5 / 3.472	4 / 2.996	6 / 2.778	6 / 2.437	- / -	43 / 16.586	



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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: C67500 / MLRS Mods					Modification Number / Title: C67500 / Multiple Launch Rocket System (MLRS) Modifications			
Models of Systems Affected: M270A1				Modification Type: .					Related RDT&E PEs:			
Financial Plan	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Modification Item 4 of 4: Fire Control System (FCS) Upgrade	0 / 0.000	- / -	7 / 0.426	6 / 0.497	- / -	6 / 0.497	6 / 0.434	6 / 0.443	6 / 0.452	8 / 0.854	- / -	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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<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10	<b>P-1 Line Item Number / Title:</b> C67500 / MLRS Mods	<b>Modification Number / Title:</b> C67500 / Multiple Launch Rocket System (MLRS) Modifications

**Modification Item 1 of 4:** Inactive Mods

**Manufacturer Information**

Manufacturer Name: TBD	Manufacturer Location: TBD
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:** TBD

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Out	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9

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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: C67500 / MLRS Mods			Modification Number / Title: C67500 / Multiple Launch Rocket System (MLRS) Modifications		
Modification Item 2 of 4: Obsolescence Mitigations/ECP Reliability Intg							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
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 (Organic): TBD					Installation Quantity: 0		

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army				<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10				<b>P-1 Line Item Number / Title:</b> C67500 / MLRS Mods			
				<b>Modification Number / Title:</b> C67500 / Multiple Launch Rocket System (MLRS) Modifications			

**Modification Item 3 of 4:** Improved Armored Cab (IAC)

**Manufacturer Information**

Manufacturer Name: TBD				Manufacturer Location: TBD			
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		Aug 2016	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020
Delivery Dates		Sep 2017	Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

**Installation Information**

**Method of Implementation:** TBD

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	9 / 0.438	7 / 0.538	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.976
FY 2016	0 / 0.000	- / -	- / -	6 / 3.927	- / -	6 / 3.927	- / -	- / -	- / -	- / -	- / -	6 / 3.927
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	5 / 3.472	- / -	- / -	- / -	- / -	5 / 3.472
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.996	- / -	- / -	- / -	4 / 2.996
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.778	- / -	- / -	6 / 2.778
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.437	- / -	6 / 2.437
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	9 / 0.438	7 / 0.538	6 / 3.927	- / -	6 / 3.927	5 / 3.472	4 / 2.996	6 / 2.778	6 / 2.437	- / -	43 / 16.586

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	-	-	-	-	-	-	-	-	3	-	-	-	13	-	-	-	11	-	-	-	10	-	-	-	24	-	-	-	-	162	223
Out	-	-	-	-	-	-	-	-	-	-	-	1	2	-	4	5	5	2	3	3	3	2	2	3	3	4	6	7	7	161	223

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10	<b>P-1 Line Item Number / Title:</b> C67500 / MLRS Mods	<b>Modification Number / Title:</b> C67500 / Multiple Launch Rocket System (MLRS) Modifications

**Modification Item 4 of 4:** Fire Control System (FCS) Upgrade

**Manufacturer Information**

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Nov 2017	Nov 2018	Nov 2019	Nov 2020
Delivery Dates				Aug 2018	Aug 2019	Aug 2020	Aug 2021

**Installation Information**

**Method of Implementation:** TBD

Installation Cost	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	7 / 0.426	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.426
FY 2016	0 / 0.000	- / -	- / -	6 / 0.497	- / -	6 / 0.497	- / -	- / -	- / -	- / -	- / -	6 / 0.497
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	6 / 0.434	- / -	- / -	- / -	- / -	6 / 0.434
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.443	- / -	- / -	- / -	6 / 0.443
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.452	- / -	- / -	6 / 0.452
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.854	- / -	8 / 0.854
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	7 / 0.426	6 / 0.497	- / -	6 / 0.497	6 / 0.434	6 / 0.443	6 / 0.452	8 / 0.854	- / -	39 / 3.106

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	12	-	12	-	-	-	22	-	-	-	22	-	-	-	143	223
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	4	4	4	5	5	6	6	6	6	6	147	223

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications							<b>P-1 Line Item Number / Title:</b> C67501 / HIMARS Modifications					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0210600A, 0603778A, 0210602A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>220.289</b>	<b>6.008</b>	<b>3.148</b>	<b>1.847</b>	<b>-</b>	<b>1.847</b>	<b>9.566</b>	<b>10.456</b>	<b>12.768</b>	<b>6.320</b>	<b>204.749</b>	<b>475.151</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	73.880	-	73.880	-	-	-	-	-	559.001
<b>Description:</b> 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.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
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		
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
	<b>Total Obligation Authority</b>	<b>6.008</b>	<b>3.148</b>	<b>1.847</b>	<b>-</b>	<b>1.847</b>	<b>9.566</b>	<b>10.456</b>	<b>12.768</b>	<b>6.320</b>		

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications					<b>P-1 Line Item Number / Title:</b> C67501 / HIMARS Modifications				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0210600A, 0603778A, 0210602A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> 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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	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
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 220.289</b>	<b>- / 6.008</b>	<b>- / 3.148</b>	<b>- / 1.847</b>	<b>- / -</b>	<b>- / 1.847</b>

  

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) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	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
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 9.566</b>	<b>- / 10.456</b>	<b>- / 12.768</b>	<b>- / 6.320</b>	<b>- / 204.749</b>	<b>- / 475.151</b>

\*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.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10				<b>P-1 Line Item Number / Title:</b> C67501 / HIMARS Modifications				<b>Modification Number / Title:</b> C67501 / HIMARS 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 ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	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 ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	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 Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	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.

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
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
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>6.008</b>	<b>3.148</b>	<b>1.847</b>	<b>-</b>	<b>1.847</b>	<b>9.566</b>	<b>10.456</b>	<b>12.768</b>	<b>6.320</b>



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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: C67501 / HIMARS Modifications					Modification Number / Title: C67501 / HIMARS Modifications				
Models of Systems Affected: M142 High Mobility Artillery Rocket System			Modification Type: Operational, Reliability, Safety, Crew Survivability					Related RDT&E PEs:					
Financial Plan	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	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 3: Enhanced Command and Control (C2)													
A Kits													
Recurring													
Equipment		66 / 38.395	59 / -	32 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	157 / 38.395	
Subtotal: Recurring		- / 38.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 38.395	
Subtotal: Enhanced Command and Control (C2)		66 / 38.395	59 / -	32 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	157 / 38.395	
Modification Item 2 of 3: Increased Crew Protection (ICP) Cab													
A Kits													
Recurring													
Kit Quantity		39 / 67.052	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 67.052	
Subtotal: Recurring		- / 67.052	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 67.052	
Subtotal: Increased Crew Protection (ICP) Cab		39 / 67.052	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 67.052	
Modification Item 3 of 3: Reliability Obsolescence Mitigation (MOD 4)													
A Kits													
Recurring													
Equipment		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 / 154.300
Subtotal: Recurring		- / 106.480	- / 5.322	- / 2.475	- / 1.672	- / -	- / 1.672	- / 9.371	- / 10.241	- / 12.533	- / 6.206	- / -	- / 154.300
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 / 154.300
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 / 259.747
Installation													
Modification Item 1 of 3: Enhanced Command and Control (C2)		66 / 1.054	59 / 0.559	32 / 0.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 36.650	157 / 38.822
Modification Item 2 of 3: Increased Crew Protection (ICP) Cab		39 / 7.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 69.000	39 / 76.133
Modification Item 3 of 3: Reliability Obsolescence Mitigation (MOD 4)		66 / 0.175	127 / 0.127	127 / 0.114	175 / 0.175	- / -	175 / 0.175	200 / 0.195	120 / 0.215	120 / 0.235	135 / 0.114	- / 99.099	1,070 / 100.449
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 / 215.404
Total													

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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: C67501 / HIMARS Modifications						Modification Number / Title: C67501 / HIMARS Modifications			
Models of Systems Affected: M142 High Mobility Artillery Rocket System			Modification Type: Operational, Reliability, Safety, Crew Survivability					Related RDT&E PEs:				
Financial Plan	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
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
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

**UNCLASSIFIED**

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

**Modification Item 1 of 3:** Enhanced Command and Control (C2)

**Manufacturer Information**

Manufacturer Name: Government Enhancement Team				Manufacturer Location: TBD			
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:** Organic

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	375
Out	245	19	38	38	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	375

**UNCLASSIFIED**

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

**Modification Item 2 of 3:** Increased Crew Protection (ICP) Cab

**Manufacturer Information**

Manufacturer Name: TBD			Manufacturer Location: TBD		
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

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

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		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		
In	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	222
Out	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	222

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2017 Army										<b>Date:</b> February 2016																					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 03 / 10										<b>P-1 Line Item Number / Title:</b> C67501 / HIMARS Modifications										<b>Modification Number / Title:</b> C67501 / HIMARS Modifications											
<b>Modification Item 3 of 3:</b> Reliability Obsolescence Mitigation (MOD 4)																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Government Obsolescence Team															Manufacturer Location: TBD																
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 9																
<b>Dates</b>		<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>					
Contract Dates										Oct 2016				Oct 2017				Oct 2018				Oct 2019				Oct 2020					
Delivery Dates										Sep 2017				Sep 2018				Sep 2019				Sep 2020				Sep 2021					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Organic																															
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>		<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021</b>		<b>To Complete</b>		<b>Total</b>							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		18 / 0.048		- / 0.000		- / 0.000		- / 0.000		- / -		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		18 / 0.048					
FY 2015		48 / 0.127		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		48 / 0.127					
FY 2016		0 / 0.000		127 / 0.127		127 / 0.114		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		254 / 0.241					
FY 2017		0 / 0.000		- / -		- / -		175 / 0.175		- / -		175 / 0.175		- / -		- / -		- / -		- / -		- / -		- / -		175 / 0.175					
FY 2018		0 / 0.000		- / -		- / -		- / -		- / -		- / -		200 / 0.195		- / -		- / -		- / -		- / -		- / -		200 / 0.195					
FY 2019		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		120 / 0.215		- / -		- / -		- / -		- / -		120 / 0.215					
FY 2020		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		120 / 0.235		- / -		- / -		- / -		120 / 0.235					
FY 2021		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		135 / 0.114		- / -		135 / 0.114					
To Complete		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / 99.099		- / 99.099					
Total		66 / 0.175		127 / 0.127		127 / 0.114		175 / 0.175		- / -		175 / 0.175		200 / 0.195		120 / 0.215		120 / 0.235		135 / 0.114		- / 99.099		- / 99.099		1,070 / 100.449					
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2015</b>				<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
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

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 04: Spares and Repair Parts / BSA 10: Spares And Repair Parts							<b>P-1 Line Item Number / Title:</b> CA0250 / Spares And Repair Parts					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A					<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	242.583	36.930	33.778	34.487	-	34.487	19.217	28.269	26.679	5.141	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	242.583	36.930	33.778	34.487	-	34.487	19.217	28.269	26.679	5.141	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>242.583</b>	<b>36.930</b>	<b>33.778</b>	<b>34.487</b>	<b>-</b>	<b>34.487</b>	<b>19.217</b>	<b>28.269</b>	<b>26.679</b>	<b>5.141</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	8,621.750	-	8,621.750	-	-	-	-	Continuing	Continuing
<b>Description:</b>												
Provides for the procurement of spares to support initial fielding of new or modified end items.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
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	-	-		
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-		
	<b>Total Obligation Authority</b>	<b>36.930</b>	<b>33.778</b>	<b>34.487</b>	<b>-</b>	<b>34.487</b>	<b>19.217</b>	<b>28.269</b>	<b>26.679</b>	<b>5.141</b>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 04: Spares and Repair Parts / BSA 10: Spares And Repair Parts					<b>P-1 Line Item Number / Title:</b> CA0250 / Spares And Repair Parts				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A						
<b>Exhibits Schedule</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
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
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 242.583</b>	<b>- / 36.930</b>	<b>- / 33.778</b>	<b>- / 34.487</b>	<b>- / -</b>	<b>- / 34.487</b>
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b>  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.</p> <p>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.</p>									

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Army															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 04 / 10						P-1 Line Item Number / Title: CA0250 / Spares And Repair Parts									Aggregated Items Title: Various					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
MLRS MODIFICATION INITIAL SPARES																				
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	-	-	-	-	-	34.011
Secondary Distribution																				
Army				-	-		-	36.930		-	32.720		-	34.011		-	-		-	34.011
Subtotal: MLRS MODIFICATION INITIAL SPARES			-	-	242.583	-	-	36.930	-	-	33.778	-	-	34.487	-	-	-	-	-	34.487
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.



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA 10: Support Equipment & Facilities							<b>P-1 Line Item Number / Title:</b> C93000 / Air Defense Targets					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A					<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	426.653	3.657	3.717	4.915	-	4.915	4.941	5.658	5.689	5.791	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	426.653	3.657	3.717	4.915	-	4.915	4.941	5.658	5.689	5.791	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>426.653</b>	<b>3.657</b>	<b>3.717</b>	<b>4.915</b>	<b>-</b>	<b>4.915</b>	<b>4.941</b>	<b>5.658</b>	<b>5.689</b>	<b>5.791</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	14.124	-	14.124	-	-	-	-	Continuing	Continuing
<b>Description:</b> 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.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
Army	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	3.657	3.717	4.915	-	4.915	4.941	5.658	5.689	5.791		
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
	<b>Total Obligation Authority</b>	<b>3.657</b>	<b>3.717</b>	<b>4.915</b>	<b>-</b>	<b>4.915</b>	<b>4.941</b>	<b>5.658</b>	<b>5.689</b>	<b>5.791</b>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA 10: Support Equipment & Facilities					<b>P-1 Line Item Number / Title:</b> C93000 / Air Defense Targets				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A						
<b>Exhibits Schedule</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-5	C93000 / Air Defense Targets	P-5a		- / 426.653	- / 3.657	- / 3.717	- / 4.915	- / -	- / 4.915
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 426.653</b>	<b>- / 3.657</b>	<b>- / 3.717</b>	<b>- / 4.915</b>	<b>- / -</b>	<b>- / 4.915</b>
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b></p> <p>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 qualification in support of unit readiness.</p> <p>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.</p>									

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Exhibit P-5, Cost Analysis: PB 2017 Army													Date: February 2016								
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10							P-1 Line Item Number / Title: C93000 / Air Defense Targets						Item Number / Title [DODIC]: C93000 / Air Defense Targets								
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				426.653			3.657			3.717			4.915			-			4.915		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				426.653			3.657			3.717			4.915			-			4.915		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				426.653			3.657			3.717			4.915			-			4.915		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-			-			-			14.124			-			14.124		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total					
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)			
Flyaway Cost																					
Recurring Cost																					
Remotely Piloted Vehicle Target (RPVT) <sup>(†)</sup>	-	-	426.653	-	-	3.657	-	-	3.717	5.846	348	2.034	-	-	-	5.846	348	2.034			
Infrared Kit Payload <sup>(††)</sup>	-	-	-	-	-	-	-	-	-	0.278	348	0.097	-	-	-	0.278	348	0.097			
Launcher <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	26.301	4	0.105	-	-	-	26.301	4	0.105			
Manual Navigation GCS <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	10.081	12	0.121	-	-	-	10.081	12	0.121			
BVR Navigation GCS <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	26.221	2	0.052	-	-	-	26.221	2	0.052			
BVR Payload <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	11.658	4	0.047	-	-	-	11.658	4	0.047			
Acoustic Scoring Payload <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	12.905	45	0.581	-	-	-	12.905	45	0.581			
Acoustic Scoring GCS <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	42.220	4	0.169	-	-	-	42.220	4	0.169			
Radar Scoring Payload <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	13.610	45	0.612	-	-	-	13.610	45	0.612			
Radar Scoring GCS <sup>(††)</sup>	-	-	-	-	-	-	-	-	-	14.169	5	0.071	-	-	-	14.169	5	0.071			
RPVT Lighting Kit Payload <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.283	41	0.012	-	-	-	0.283	41	0.012			
Program Management Support	-	-	-	-	-	-	-	-	-	1,014.382	1	1.014	-	-	-	1,014.382	1	1.014			

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army										<b>Date:</b> February 2016							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 05 / 10					<b>P-1 Line Item Number / Title:</b> C93000 / Air Defense Targets					<b>Item Number / Title [DODIC]:</b> C93000 / Air Defense Targets							

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	426.653	-	-	3.657	-	-	3.717	-	-	4.915	-	-	-	-	-	4.915
<i>Subtotal: Flyaway Cost</i>	-	-	426.653	-	-	3.657	-	-	3.717	-	-	4.915	-	-	-	-	-	4.915
<b>Gross/Weapon System Cost</b>	-	-	426.653	-	-	3.657	-	-	3.717	14.124	-	4.915	-	-	-	14.124	-	4.915

Secondary 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
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	3.657	3.717	4.915	-	4.915

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10			P-1 Line Item Number / Title: C93000 / Air Defense Targets						Item Number / Title [DODIC]: C93000 / Air Defense Targets			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue 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	Y		
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	Y		
BVR Navigation GCS		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	2	26.221	Y		
BVR Payload		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	4	11.658	Y		
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	Y		
Radar Scoring GCS		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	5	14.169	Y		
RPVT Lighting Kit Payload		2017	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2017	Jun 2017	41	0.283	Y		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA 10: Support Equipment & Facilities							<b>P-1 Line Item Number / Title:</b> CL2000 / Items Less Than \$5.0m (Missiles)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	51.201	1.522	1.544	-	-	-	-	-	-	-	-	54.267
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	51.201	1.522	1.544	-	-	-	-	-	-	-	-	54.267
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>51.201</b>	<b>1.522</b>	<b>1.544</b>	-	-	-	-	-	-	-	-	<b>54.267</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Description:</b> 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.												
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>		
Army	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	1.522	1.544	-	-	-	-	-	-	-	-	
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-	-	
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>1.522</b>	<b>1.544</b>	-	-	-	-	-	-	-	-	

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA 10: Support Equipment & Facilities					<b>P-1 Line Item Number / Title:</b> CL2000 / Items Less Than \$5.0m (Missiles)				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A						
<b>Exhibits Schedule</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-5	CL2000 / Items Less Than \$5.0m (Missiles)			- / 51.201	- / 1.522	- / 1.544	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 51.201</b>	<b>- / 1.522</b>	<b>- / 1.544</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b> No FY17 Funding requirement</p>									

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army												<b>Date:</b> February 2016						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 05 / 10						<b>P-1 Line Item Number / Title:</b> CL2000 / Items Less Than \$5.0m (Missiles)						<b>Item Number / Title [DODIC]:</b> CL2000 / Items Less Than \$5.0m (Missiles)						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :									<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				51.201		1.522		1.544		-		-		-				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				51.201		1.522		1.544		-		-		-				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>				<b>51.201</b>		<b>1.522</b>		<b>1.544</b>		<b>-</b>		<b>-</b>		<b>-</b>				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ 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	-	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>						<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>		
Army		Quantity				-			-			-		-		-		
		Total Obligation Authority				1.522			1.544			-		-		-		
Total: Secondary Distribution		Quantity				-			-			-		-		-		
		Total Obligation Authority				1.522			1.544			-		-		-		



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA 10: Support Equipment & Facilities	<b>P-1 Line Item Number / Title:</b> CA0100 / Production Base Support
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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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 ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	364.283	4.710	4.704	1.154	-	1.154	1.189	1.212	1.087	1.047	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	364.283	4.710	4.704	1.154	-	1.154	1.189	1.212	1.087	1.047	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>364.283</b>	<b>4.710</b>	<b>4.704</b>	<b>1.154</b>	<b>-</b>	<b>1.154</b>	<b>1.189</b>	<b>1.212</b>	<b>1.087</b>	<b>1.047</b>	<b>Continuing</b>	<b>Continuing</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**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.

Secondary 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
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>4.710</b>	<b>4.704</b>	<b>1.154</b>	<b>-</b>	<b>1.154</b>	<b>1.189</b>	<b>1.212</b>	<b>1.087</b>	<b>1.047</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA 10: Support Equipment & Facilities	<b>P-1 Line Item Number / Title:</b> CA0100 / Production Base Support
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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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)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	CA4002 / PIF FOR OTHER			- / 364.283	- / 4.710	- / 4.704	- / 1.154	- / -	- / 1.154
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 364.283</b>	<b>- / 4.710</b>	<b>- / 4.704</b>	<b>- / 1.154</b>	<b>- / -</b>	<b>- / 1.154</b>

\*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.

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Army															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10							P-1 Line Item Number / Title: CA0100 / Production Base Support							Aggregated Items Title: Various						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
PIF FOR OTHER																				
CA4002 / PIF FOR OTHER			-	-	364.283	-	-	4.710	-	-	4.704	-	-	1.154	-	-	-	-	-	1.154
Secondary Distribution																				
Army				-	-		-	4.710		-	4.704		-	1.154		-	-		-	1.154
Subtotal: PIF FOR OTHER			-	-	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.