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**Department of Defense  
Fiscal Year (FY) 2016 President's Budget Submission**

February 2015



**Army**

*Justification Book of*  
***Missile Procurement, Army***

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The following Justification Books were prepared at a cost of \$1,187,353.84: 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.

# 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, \$1,457,217,000 to remain available for obligation until September 30, 2018, of which \$27,084,000 shall be available for the Army National Guard and Army Reserve.

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Department of the Army  
 FY 2016 President's Budget  
 Exhibit P-1 FY 2016 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

16 Jan 2015

Appropriation -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
Missile Procurement, Army	1,693,562	1,208,692	32,136	1,240,828
Total Department of the Army	1,693,562	1,208,692	32,136	1,240,828

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Department of the Army  
FY 2016 President's Budget  
Exhibit P-1 FY 2016 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

16 Jan 2015

Appropriation -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
Missile Procurement, Army	1,419,957	37,260	1,457,217
Total Department of the Army	1,419,957	37,260	1,457,217

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Department of the Army  
 FY 2016 President's Budget  
 Exhibit P-1 FY 2016 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

16 Jan 2015

## Appropriation: Missile Procurement, Army

Budget Activity -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
02. Other Missiles	1,271,767	935,005	32,136	967,141
03. Modification of Missiles	401,366	226,868		226,868
04. Spares and Repair Parts	10,474	36,930		36,930
05. Support Equipment and Facilities	9,955	9,889		9,889
Total Missile Procurement, Army	1,693,562	1,208,692	32,136	1,240,828

## UNCLASSIFIED

Department of the Army  
 FY 2016 President's Budget  
 Exhibit P-1 FY 2016 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

16 Jan 2015

Appropriation: Missile Procurement, Army

Budget Activity -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
02. Other Missiles	1,018,910	37,260	1,056,170
03. Modification of Missiles	357,304		357,304
04. Spares and Repair Parts	33,778		33,778
05. Support Equipment and Facilities	9,965		9,965
Total Missile Procurement, Army	1,419,957	37,260	1,457,217



## UNCLASSIFIED

Department of the Army  
 FY 2016 President's Budget  
 Exhibit P-1 FY 2016 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

16 Jan 2015

Appropriation: 2032A Missile Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 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		110,300	U
2	MSE Missile		92 690,401	108 532,605		108 532,605	U
Air-To-Surface Missile System							
3	Hellfire Sys Summary	A	321 73,890	4,452	231 32,136	231 36,588	U
4	Joint Air-To-Ground MsIs (JAGM) Advance Procurement (CY)						U
Anti-Tank/Assault Missile Sys							
5	Javelin (Aaws-M) System Summary		564 110,510	311 72,877		311 72,877	U
6	Tow 2 System Summary Less: Advance Procurement (PY)	A	988 (69,281) (-19,927)	1008 (50,368)		1008 (50,368)	U
			49,354	50,368		50,368	
7	Tow 2 System Summary Advance Procurement (CY)		19,965	19,984		19,984	U
8	Guided MLRS Rocket (GMLRS)		2166 273,025	774 127,145		774 127,145	U
9	MLRS Reduced Range Practice Rockets (RRPR)		1614 19,022	2994 17,274		2994 17,274	U
10	Army Tactical Msl Sys (ATACMS) - Sys Sum	B	24 35,600				U
Total Other Missiles			1,271,767	935,005	32,136	967,141	
Budget Activity 03: Modification of Missiles							
Modifications							
11	Patriot Mods		326,438	183,838		183,838	U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 16, 2015 at 13:55:36

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Department of the Army  
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Exhibit P-1 FY 2016 President's Budget  
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(Dollars in Thousands)

16 Jan 2015

Appropriation: 2032A Missile Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 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		115,075			115,075		U
2	MSE Missile		80	414,946			80	414,946	U
Air-To-Surface Missile System									
3	Hellfire Sys Summary	A	113	27,975	270	37,260	383	65,235	U
4	Joint Air-To-Ground MsIs (JAGM) Advance Procurement (CY)			27,738				27,738	U
Anti-Tank/Assault Missile Sys									
5	Javelin (Aaws-M) System Summary		331	77,163			331	77,163	U
6	Tow 2 System Summary Less: Advance Procurement (PY)	A	1704	(107,509) (-19,984)			1704	(107,509) (-19,984)	U
				87,525				87,525	
7	Tow 2 System Summary Advance Procurement (CY)								U
8	Guided MLRS Rocket (GMLRS)		1668	251,060			1668	251,060	U
9	MLRS Reduced Range Practice Rockets (RRPR)		3121	17,428			3121	17,428	U
10	Army Tactical Msl Sys (ATACMS) - Sys Sum	B							U
Total Other Missiles				1,018,910		37,260		1,056,170	

Budget Activity 03: Modification of Missiles

Modifications

11	Patriot Mods			241,883				241,883	U
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Department of the Army  
 FY 2016 President's Budget  
 Exhibit P-1 FY 2016 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

16 Jan 2015

Appropriation: 2032A Missile Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
12	ATACMS MODS	A					U
13	GMLRS MOD	A					U
14	Stinger Mods		37,252	1,355		1,355	U
15	Avenger Mods			5,611		5,611	U
16	Itas/Tow Mods		20,000	19,676		19,676	U
17	MLRS Mods		11,571	10,380		10,380	U
18	Himars Modifications		6,105	6,008		6,008	U
Total Modification of Missiles			401,366	226,868		226,868	
Budget Activity 04: Spares and Repair Parts							
-----							
Spares and Repair Parts							
19	Spares and Repair Parts		10,474	36,930		36,930	U
Total Spares and Repair Parts			10,474	36,930		36,930	
Budget Activity 05: Support Equipment and Facilities							
-----							
Support Equipment & Facilities							
20	Air Defense Targets		3,530	3,657		3,657	U
21	Items Less Than \$5.0m (Missiles)		1,748	1,522		1,522	U
22	Production Base Support		4,677	4,710		4,710	U
Total Support Equipment and Facilities			9,955	9,889		9,889	
Total Missile Procurement, Army			1,693,562	1,208,692	32,136	1,240,828	

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 16, 2015 at 13:55:36

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Department of the Army  
FY 2016 President's Budget  
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(Dollars in Thousands)

16 Jan 2015

Appropriation: 2032A Missile Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
12	ATACMS MODS	A		30,119			30,119		U
13	GMLRS MOD	A		18,221			18,221		U
14	Stinger Mods			2,216			2,216		U
15	Avenger Mods			6,171			6,171		U
16	Itas/Tow Mods			19,576			19,576		U
17	MLRS Mods			35,970			35,970		U
18	Himars Modifications			3,148			3,148		U
Total Modification of Missiles				357,304			357,304		
Budget Activity 04: Spares and Repair Parts									
-----									
Spares and Repair Parts									
19	Spares and Repair Parts			33,778			33,778		U
Total Spares and Repair Parts				33,778			33,778		
Budget Activity 05: Support Equipment and Facilities									
-----									
Support Equipment & Facilities									
20	Air Defense Targets			3,717			3,717		U
21	Items Less Than \$5.0m (Missiles)			1,544			1,544		U
22	Production Base Support			4,704			4,704		U
Total Support Equipment and Facilities				9,965			9,965		
Total Missile Procurement, Army				1,419,957		37,260	1,457,217		

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

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5	02	30	CC0007	Javelin (AAWS-M) System Summary.....	26
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*Appropriation 2032A: Missile Procurement, Army*

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ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM	C98510	10	02	30.....	68
ATACMS MODS	CA6700	12	03	10.....	94
AVENGER MODS	CE8710	15	03	10.....	110
Air Defense Targets	C93000	20	05	10.....	148
GMLRS MOD	C57701	13	03	10.....	99
Guided MLRS Rocket (GMLRS)	C64400	8	02	30.....	50
HIMARS Modifications	C67501	18	03	10.....	139
Hellfire Sys Summary	C70000	3	02	20.....	14
ITAS/TOW Mods	C61700	16	03	10.....	123
Items Less Than \$5.0m (Missiles)	CL2000	21	05	10.....	150
Javelin (AAWS-M) System Summary	CC0007	5	02	30.....	26
Joint Air-to-Ground MSLS (JAGM)	C70302	4	02	20.....	23
Lower Tier Air and Missile Defense (AMD)	C50016	1	02	10.....	1
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Line Item Title	Line Item Number	Line #	BA	BSA	Page
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Stinger Mods	C20000	14	03	10.....	105
TOW 2 System Summary	C59300	6	02	30.....	35
TOW 2 System Summary, Advance Procurement	C59300	7	02	30.....	46

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army									<b>Date:</b> February 2015			
<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>					<b>Other Related Program Elements:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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	-	115.075	130.366	113.676	123.582	151.421	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	-	-	110.300	115.075	-	115.075	130.366	113.676	123.582	151.421	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>115.075</b>	<b>130.366</b>	<b>113.676</b>	<b>123.582</b>	<b>151.421</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> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b></p> <p>The Lower Tier Air and Missile Defense (AMD) supports the mission of the PATRIOT Advanced Capability-3 (PAC-3) Missile Field Surveillance Program (FSP) 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. 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.</p> <p>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 (LMMFC) provides as the only source of technical knowledge, expertise, and facilities to perform FSP activities and process PAC-3 missiles.</p> <p>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 program is also used as a vehicle to engineer and maintain PATRIOT software. The majority of the software effort involves the engineering of post deployment software builds (PDB-8/8.x).</p> <p>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 activation of a system.</p>												

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015			
<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>				<b>Other Related Program Elements:</b>			
<b>Secondary Distribution</b>		<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	110.300	115.075	-	115.075	130.366	113.676	123.582	151.421
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	<b>110.300</b>	<b>115.075</b>	-	<b>115.075</b>	<b>130.366</b>	<b>113.676</b>	<b>123.582</b>	<b>151.421</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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>			<b>Other Related Program Elements:</b>		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C50016 / Lower Tier Air and Missile Defense (AMD)	P-5		- / -	- / -	- / 110.300	- / 115.075	- / -	- / 115.075
<b>Total Gross/Weapon System Cost</b>			- / -	- / -	- / 110.300	- / 115.075	- / -	- / 115.075
<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 add due to rounding.</p>								
<p><b>Justification:</b>  FY16 base procurement dollars in the amount of \$115.075 million support 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.</p> <p>This is not a new start. Funds in this program are a realignment of funds from C53101 (MSE) to reflect those requirements that are not unique to MSE.</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 2016 Army												Date: February 2015							
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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				-		-		110.300		115.075		-		115.075					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P1) (\$ in Millions)				-		-		110.300		115.075		-		115.075					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				-		-		110.300		115.075		-		115.075					
(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 add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	-	-	-	-	-	15.000	
P3MSC	-	-	-	-	-	-	-	-	6.400	-	-	5.500	-	-	-	-	-	5.500	
International Engr Services Program	-	-	-	-	-	-	-	-	55.200	-	-	56.800	-	-	-	-	-	56.800	
System Engineering/ Project Management	-	-	-	-	-	-	-	-	9.000	-	-	9.200	-	-	-	-	-	9.200	
OGA/ILS	-	-	-	-	-	-	-	-	24.700	-	-	28.575	-	-	-	-	-	28.575	
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	110.300	-	-	115.075	-	-	-	-	-	115.075	
Subtotal: Flyaway Cost	-	-	-	-	-	-	-	-	110.300	-	-	115.075	-	-	-	-	-	115.075	
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	110.300	-	-	115.075	-	-	-	-	-	115.075	
Secondary Distribution							FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Army			Quantity				-		-		-		-		-				
			Total Obligation Authority				-		110.300		115.075		-		115.075				
Total: Secondary Distribution			Quantity				-		-		-		-		-				
			Total Obligation Authority				-		110.300		115.075		-		115.075				

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army										<b>Date:</b> February 2015		
<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>				<b>Other Related Program Elements:</b> 0604865A, 0603869A, 0604869A, 0605456A				
<b>Line Item MDAP/MAIS Code:</b>		<b>Item MDAP/MAIS Code(s):</b> 492										
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	92	108	80	-	80	85	93	95	104	1,057	1,714
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	81.660	690.401	532.605	414.946	-	414.946	430.622	462.676	493.613	569.488	2,247.200	5,923.211
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	81.660	690.401	532.605	414.946	-	414.946	430.622	462.676	493.613	569.488	2,247.200	5,923.211
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>81.660</b>	<b>690.401</b>	<b>532.605</b>	<b>414.946</b>	<b>-</b>	<b>414.946</b>	<b>430.622</b>	<b>462.676</b>	<b>493.613</b>	<b>569.488</b>	<b>2,247.200</b>	<b>5,923.211</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> )	-	7,504.359	4,931.528	5,186.825	-	5,186.825	5,066.141	4,975.011	5,195.926	5,475.846	2,126.017	3,455.782
<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) & 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 being developed to integrate with the PATRIOT system for the U.S. and is also the internationally accepted missile for MEADS (as FMS case).												
<b>Secondary Distribution</b>		<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>		
Army	Quantity	92	108	80	-	80	85	93	95	104		
	Total Obligation Authority	690.401	532.605	414.946	-	414.946	430.622	462.676	493.613	569.488		
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>92</b>	<b>108</b>	<b>80</b>	<b>-</b>	<b>80</b>	<b>85</b>	<b>93</b>	<b>95</b>	<b>104</b>		
	<b>Total Obligation Authority</b>	<b>690.401</b>	<b>532.605</b>	<b>414.946</b>	<b>-</b>	<b>414.946</b>	<b>430.622</b>	<b>462.676</b>	<b>493.613</b>	<b>569.488</b>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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>			<b>Other Related Program Elements:</b> 0604865A, 0603869A, 0604869A, 0605456A		
<b>Line Item MDAP/MAIS Code:</b>		<b>Item MDAP/MAIS Code(s):</b> 492						
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C53101 / MSE Missile	P-5, P-5a, P-21		- / 81.660	92 / 690.401	108 / 532.605	80 / 414.946	- / -	80 / 414.946
<b>Total Gross/Weapon System Cost</b>			<b>- / 81.660</b>	<b>92 / 690.401</b>	<b>108 / 532.605</b>	<b>80 / 414.946</b>	<b>- / -</b>	<b>80 / 414.946</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 add due to rounding.								
<p><b>Justification:</b>            The FY 2016 base procurement dollars in the amount of \$414.946 million supports the production of 80 Missile Segment Enhancement (MSE) missiles and supporting equipment. Army Acquisition Objective (AAO) is 3376.</p> <p>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.</p> <p>*Affects of notional FMS procurement of PAC-3 missile variants are included in the yearly MSE quantities. In the event that these notional FMS procurements do not occur, the current projected missile unit price may not be achievable.</p>								



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Exhibit P-5, Cost Analysis: PB 2016 Army													Date: February 2015					
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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		92		108		80		-		80				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				81.660		690.401		532.605		414.946		-		414.946				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				81.660		690.401		532.605		414.946		-		414.946				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				81.660		690.401		532.605		414.946		-		414.946				
(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>				-		7,504.359		4,931.528		5,186.825		-		5,186.825				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	-	-	-	4,673.913	92	430.000	4,425.000	108	477.900	4,266.250	80	341.300	-	-	-	4,266.250	80	341.300
Field Surveillance	-	-	-	-	-	25.900	-	-	2.600	-	-	2.900	-	-	-	-	-	2.900
PAC-3 Missile Support Center (P3MSC)	-	-	-	-	-	12.000	-	-	1.600	-	-	1.600	-	-	-	-	-	1.600
Obsolescence	-	-	-	-	-	20.500	-	-	18.005	-	-	16.700	-	-	-	-	-	16.700
Launcher Station (LS) Mods	-	-	-	-	-	13.300	-	-	5.900	-	-	5.900	-	-	-	-	-	5.900
Heater Kits	-	-	-	-	-	2.500	-	-	-	-	-	-	-	-	-	-	-	-
Msl Round Trainer / Empty Round Trainer	-	-	-	-	-	56.800	-	-	11.100	-	-	30.726	-	-	-	-	-	30.726
Initial Production Facilitization	-	-	81.220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Contractor Engineering	-	-	-	-	-	54.349	-	-	-	-	-	-	-	-	-	-	-	-
Government/Software Engineering	-	-	0.440	-	-	27.174	-	-	6.200	-	-	6.340	-	-	-	-	-	6.340
Sys Engrg/Proj Mgmt (SE/PM) Contractor	-	-	-	-	-	19.410	-	-	9.300	-	-	9.480	-	-	-	-	-	9.480
Integrated Logistics Support	-	-	-	-	-	28.468	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	81.660	-	-	690.401	-	-	532.605	-	-	414.946	-	-	-	-	-	414.946
Subtotal: Flyaway Cost	-	-	81.660	-	-	690.401	-	-	532.605	-	-	414.946	-	-	-	-	-	414.946

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<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Army										<b>Date:</b> February 2015							
<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							

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b> 492							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
Gross/Weapon System Cost	-	-	81.660	7,504.359	92	690.401	4,931.528	108	532.605	5,186.825	80	414.946	-	-	-	5,186.825	80	414.946

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	92	108	80	-	80
	Total Obligation Authority	690.401	532.605	414.946	-	414.946
<b>Total:</b>						
Secondary Distribution						
		<b>Quantity</b>	<b>92</b>	<b>108</b>	<b>80</b>	<b>80</b>
		<b>Total Obligation Authority</b>	<b>690.401</b>	<b>532.605</b>	<b>414.946</b>	<b>414.946</b>

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2016 Army								<b>Date:</b> February 2015				
<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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Missile Hardware <sup>(†)</sup>		2014	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Mar 2014	Aug 2015	92	4,673.913	N		Oct 2013
Missile Hardware <sup>(†)</sup>		2015	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Mar 2015	Aug 2016	108	4,425.000	N		
Missile Hardware <sup>(†)</sup>		2016	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Feb 2016	Aug 2017	80	4,266.250	N		

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

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Exhibit P-21, Production Schedule: PB 2016 Army																				Date: February 2015													
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 2014													Fiscal Year 2015													
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014													Calendar Year 2015													B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Missile Hardware																																	
	1	2014	ARMY	92	-	92							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	80
	1	2015	ARMY	108	-	108																			A -	-	-	-	-	-	-	-	108
	1	2016	ARMY	80	-	80																											80
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Army																				Date: February 2015													
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 2016										Fiscal Year 2017																
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016										Calendar Year 2017																
							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	B A L		
Missile Hardware																																	
	1	2014	ARMY	92	12	80	4	-	-	-	-	-	16	18	20	22																-	
	1	2015	ARMY	108	-	108	-	-	-	-	-	-	-	-	-	-	20	20	20	20	20	8											-
	1	2016	ARMY	80	-	80					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	28	24		
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Army																				Date: February 2015													
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																
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018										Calendar Year 2019																
							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	B A L		
Missile Hardware																																	
	1	2014	ARMY	92	92	-																										-	
	1	2015	ARMY	108	108	-																										-	
	1	2016	ARMY	80	56	24	24																										-
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Army									Date: February 2015			
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			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	LMMFC - Dallas, TX	72	240	360	-	6	17	23	-	6	17	23

**Remarks:**  
Production Rates reflect annual production capacity.

"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 2016 Army										<b>Date:</b> February 2015		
<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) :			<b>Program Elements for Code B Items:</b>					<b>Other Related Program Elements:</b> 0203802A, 0210109A				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	75,718	321	231	113	270	383	281	236	237	-	-	77,407
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	5,438.848	73.890	36.588	27.975	37.260	65.235	42.614	42.624	40.653	4.351	-	5,744.803
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	5,438.848	73.890	36.588	27.975	37.260	65.235	42.614	42.624	40.653	4.351	-	5,744.803
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>5,438.848</b>	<b>73.890</b>	<b>36.588</b>	<b>27.975</b>	<b>37.260</b>	<b>65.235</b>	<b>42.614</b>	<b>42.624</b>	<b>40.653</b>	<b>4.351</b>	<b>-</b>	<b>5,744.803</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> )	71.830	230.187	158.390	247.566	138.000	170.326	151.651	180.610	171.532	-	-	74.216
<b>Description:</b> The Laser HELLFIRE II system family of air-to-ground missiles (all variants) provides attack helicopters and unmanned aircraft systems (UAS) with point-target precision strike capability to defeat heavy, advanced armor, individual hard point and non-traditional targets. HELLFIRE II missiles use a semi-active laser terminal guidance and are the primary armament of the AH-64 Apache, OH-58 Kiowa Warrior, Army UAS and Special Operations aircraft. The HELLFIRE II includes Electro-Optical Countermeasure capability, warhead improvements and an updated electronic fuze. The AGM-114R HELLFIRE II missile will be the single variant that replaces all other HELLFIRE II missile configurations (K/N/M/P). HELLFIRE II Romeo procurement funding supports the entire HELLFIRE II system to include resolution of obsolescence, safety, reliability, weapon integration activities, test sets, engineering changes and production issues. This missile will be compatible on all current force UAS and rotary wing platforms.												
<b>Secondary Distribution</b>		<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>		
Army	Quantity	321	231	113	270	383	281	236	237	-		
	Total Obligation Authority	73.890	36.588	27.975	37.260	65.235	42.614	42.624	40.653	4.351		
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>321</b>	<b>231</b>	<b>113</b>	<b>270</b>	<b>383</b>	<b>281</b>	<b>236</b>	<b>237</b>	<b>-</b>		
	<b>Total Obligation Authority</b>	<b>73.890</b>	<b>36.588</b>	<b>27.975</b>	<b>37.260</b>	<b>65.235</b>	<b>42.614</b>	<b>42.624</b>	<b>40.653</b>	<b>4.351</b>		



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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) :			<b>Program Elements for Code B Items:</b>			<b>Other Related Program Elements:</b> 0203802A, 0210109A		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)	P-5, P-5a, P-21		62,813 / 3,328.940	321 / 73.890	231 / 36.588	113 / 27.975	270 / 37.260	383 / 65.235
<b>Total Gross/Weapon System Cost</b>			<b>75,718 / 5,438.848</b>	<b>321 / 73.890</b>	<b>231 / 36.588</b>	<b>113 / 27.975</b>	<b>270 / 37.260</b>	<b>383 / 65.235</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 add due to rounding.</p>								
<p><b>Justification:</b>            The HELLFIRE Product Office is the procurement agent for all services for all variants of the HELLFIRE missile.</p> <p>FY 2016 Base procurement dollars in the amount of \$27.975 million provide government engineering support for HELLFIRE II missiles and the procurement of 113 missiles. These funds continue through the Program Objective Memorandum (POM) to support Army deliveries, work issues from field failures, support the users, address obsolescence and facilitate other service orders. Army Acquisition Objective is 34,292.</p> <p>FY 2016 Overseas Contingency Operations (OCO) procurement dollars in the amount of \$37.260 million procure the replacement of 270 missiles expended in theater.</p> <p>The Army has depended on OCO funding to replenish stocks since FY 2008. The Army continues to evaluate the transition strategy from HELLFIRE to Joint Air to Ground Missile (JAGM). The Army intends to convert any price advantage created through contract negotiations, other service procurement and/or Foreign Military Sale (FMS) to increase the Army procurement of HELLFIRE II missiles.</p> <p>Due to timing issues with the PB16 submission, the FY16 quantity is understated. The correct Base quantity should be 200 and the correct OCO quantity is 270 for a total quantity of 470. The unit cost for both Base and OCO quantities is projected to be \$98.785K.</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 2016 Army											Date: February 2015							
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:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (Units in Each)				62,813		321		231		113		270		383				
Gross/Weapon System Cost (\$ in Millions)				3,328.940		73.890		36.588		27.975		37.260		65.235				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P1) (\$ in Millions)				3,328.940		73.890		36.588		27.975		37.260		65.235				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				3,328.940		73.890		36.588		27.975		37.260		65.235				
(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)				52.998		230.187		158.390		247.566		138.000		170.326				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	43.772	62,813	2,749.431	143.022	321	45.910	97.268	231	22.469	174.841	113	19.757	98.785	270	26.672	121.225	383	46.429
Engineering Services	-	-	120.357	-	-	3.707	-	-	1.878	-	-	1.615	-	-	1.878	-	-	3.493
Fielding	-	-	29.007	-	-	0.836	-	-	0.368	-	-	0.323	-	-	0.436	-	-	0.759
Acceptance Testing	-	-	52.537	-	-	0.150	-	-	0.066	-	-	0.058	-	-	0.078	-	-	0.136
Project Mgt Admin	-	-	151.911	-	-	10.177	-	-	5.193	-	-	2.604	-	-	3.353	-	-	5.957
Production Engineering Support	-	-	225.673	-	-	13.110	-	-	6.614	-	-	3.618	-	-	4.843	-	-	8.461
Subtotal: Recurring Cost	-	-	3,328.936	-	-	73.890	-	-	36.588	-	-	27.975	-	-	37.260	-	-	65.235
Subtotal: Flyaway Cost	-	-	3,328.936	-	-	73.890	-	-	36.588	-	-	27.975	-	-	37.260	-	-	65.235
Gross/Weapon System Cost	52.998	62,813	3,328.940	230.187	321	73.890	158.390	231	36.588	247.566	113	27.975	138.000	270	37.260	170.326	383	65.235
Secondary Distribution																		
Army		Quantity				321		231		113		270		383				
		Total Obligation Authority				73.890		36.588		27.975		37.260		65.235				
Total: Secondary Distribution		Quantity				321		231		113		270		383				
		Total Obligation Authority				73.890		36.588		27.975		37.260		65.235				

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<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Army		<b>Date:</b> February 2015
<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>
<p>(†) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army								Date: February 2015				
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	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>		2014	HELLFIRE Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	May 2014	May 2016	321	143.022	N		Mar 2011
All-up Rounds <sup>(†)</sup>		2015	HELLFIRE Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	May 2015	May 2017	231	97.268	N		Dec 2013
All-up Rounds <sup>(†)</sup>		2016	HELLFIRE Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	May 2016	May 2018	113	174.841	N		Dec 2013
All-up Rounds <sup>(†)</sup>		2016	HF Sys Limited Liability / Orlando	C / FFP	AMCOM, Redstone Arsenal, AL	May 2016	May 2018	270	98.785	N		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.

P-40 FY 2015 and FY 2016 Weapon System Procurement Unit Cost is constrained by format. 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. All customers benefit from every order placed within the ordering window. FY 2014 actuals as of the end of December 2014 was a quantity of 533 at a unit cost of \$86.135K.

Due to timing issues with the PB16 submission, the FY16 quantity is understated. The correct Base quantity should be 200 and the correct OCO quantity is 270 for a total quantity of 470. The unit cost for both Base and OCO quantities is projected to be \$98.785K.

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Exhibit P-21, Production Schedule: PB 2016 Army																							Date: February 2015										
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 2014														Fiscal Year 2015												
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014														Calendar Year 2015												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
All-up Rounds																																	
Prior Years Deliveries: 62813																																	
	1	2014	ARMY	321	-	321								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	321		
	1	2014	AF (‡)	690	-	690								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	690		
	1	2014	FMS (‡)	1,654	-	1,654								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,654		
	1	2014	Total	2,665	-	2,665								-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,665		
	1	2015	ARMY	231	-	231																					A -	-	-	-	-	231	
	1	2015	AF (‡)	1,525	-	1,525																					A -	-	-	-	-	1,525	
	1	2015	FMS (‡)	750	-	750																					A -	-	-	-	-	750	
	1	2015	Total	2,506	-	2,506																					-	-	-	-	-	2,506	
	1	2016	ARMY <sup>(I)</sup>	113	-	113																										113	
	1	2016	AF (‡)	5,252	-	5,252																										5,252	
	1	2016	FMS (‡) <sup>(II)</sup>	500	-	500																										500	
	1	2016	Total	5,865	-	5,865																										5,865	
	2	2016	ARMY <sup>(III)</sup>	270	-	270																										270	
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Army																							Date: February 2015										
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 2016													Fiscal Year 2017													
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017													B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
All-up Rounds																																	
Prior Years Deliveries: 62813																																	
	1	2014	ARMY	321	-	321	-	-	-	-	-	-	-	27	27	27	27	27	27	27	27	27	26	26	26								-
	1	2014	AF (‡)	690	-	690	-	-	-	-	-	-	-	58	58	58	58	58	58	57	57	57	57	57	57								-
	1	2014	FMS (‡)	1,654	-	1,654	-	-	-	-	-	-	-	138	138	138	138	138	138	138	138	138	138	137	137								-
	1	2014	Total	2,665	-	2,665	-	-	-	-	-	-	-	223	223	223	223	223	223	222	222	222	222	221	220								220
	1	2015	ARMY	231	-	231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	20	20	19	19	133		
	1	2015	AF (‡)	1,525	-	1,525	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127	127	127	127	127	890		
	1	2015	FMS (‡)	750	-	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	63	63	63	63	435		
	1	2015	Total	2,506	-	2,506	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210	210	210	209	209	1,458		
	1	2016	ARMY (I)	113	-	113								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113		
	1	2016	AF (‡)	5,252	-	5,252								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,252		
	1	2016	FMS (‡) (II)	500	-	500								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500		
	1	2016	Total	5,865	-	5,865								-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,865		
	2	2016	ARMY (III)	270	-	270								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	270		
							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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Army																			Date: February 2015														
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 2018												Fiscal Year 2019														
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019										B A L				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P		
All-up Rounds																																	
Prior Years Deliveries: 62813																																	
	1	2014	ARMY	321	321	-																											-
	1	2014	AF (‡)	690	690	-																											-
	1	2014	FMS (‡)	1,654	1,654	-																											-
	1	2014	Total	2,665	2,665	-																											-
	1	2015	ARMY	231	98	133	19	19	19	19	19	19	19																				-
	1	2015	AF (‡)	1,525	635	890	127	127	127	127	127	127	128																				-
	1	2015	FMS (‡)	750	315	435	63	62	62	62	62	62	62																				-
	1	2015	Total	2,506	1,048	1,458	209	208	208	208	208	208	209																				-
	1	2016	ARMY (I)	113	-	113	-	-	-	-	-	-	10	10	10	10	10	9	9	9	9	9	9	9								-	
	1	2016	AF (‡)	5,252	-	5,252	-	-	-	-	-	-	438	438	438	438	438	438	438	437	437	437	437	-									
	1	2016	FMS (‡) (II)	500	-	500	-	-	-	-	-	-	42	42	42	42	42	42	42	42	41	41	41	41								-	
	1	2016	Total	5,865	-	5,865	-	-	-	-	-	-	490	490	490	490	490	489	489	489	487	487	487	487								-	
	2	2016	ARMY (III)	270	-	270	-	-	-	-	-	-	23	23	23	23	23	23	22	22	22	22	22	22								-	
							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

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Exhibit P-21, Production Schedule: PB 2016 Army									Date: February 2015			
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)			
		Production Rates (Each / Month)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	HELLFIRE Sys Limited Liability - Orlando	1,200	4,080	7,000	6	3	24	27	5	3	24	27
2	HF Sys Limited Liability - Orlando	1,200	4,080	7,000	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) OCO



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army										<b>Date:</b> February 2015		
<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>				<b>Other Related Program Elements:</b> 0605450A				
<b>Line Item MDAP/MAIS Code:</b>			<b>Item MDAP/MAIS Code(s):</b> 355									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	286	372	475	500	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	27.738	-	27.738	57.466	151.619	109.932	128.584	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	-	-	-	27.738	-	27.738	57.466	151.619	109.932	128.584	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	-	27.738	-	27.738	57.466	151.619	109.932	128.584	Continuing	Continuing
<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> )	-	-	-	-	-	-	200.930	407.578	231.436	257.168	Continuing	Continuing
<b>Description:</b> The Joint Air-to-Ground Missile (JAGM) program is an Army led pre-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 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 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>		
Army	Quantity	-	-	-	-	-	286	372	475	500		
	Total Obligation Authority	-	-	27.738	-	27.738	57.466	151.619	109.932	128.584		
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	286	372	475	500		
	<b>Total Obligation Authority</b>	-	-	27.738	-	27.738	57.466	151.619	109.932	128.584		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army						<b>Date:</b> February 2015		
<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>		<b>Other Related Program Elements:</b> 0605450A			
<b>Line Item MDAP/MAIS Code:</b>		<b>Item MDAP/MAIS Code(s):</b> 355						
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C70302 / Joint Air-to-Ground MSLS (JAGM)	P-5		- / -	- / -	- / -	- / 27.738	- / -	- / 27.738
<b>Total Gross/Weapon System Cost</b>			- / -	- / -	- / -	- / 27.738	- / -	- / 27.738
*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 add due to rounding.								

**Justification:**

Fiscal Year (FY) 2016 base procurement dollars in the amount of \$27.738 million is Advance Procurement that supports the acquisition of long lead components for FY 2017 production.

The JAGM Product Office is the procurement agent for all services. The Army maintains funding, program management, contracting and acquisition oversight for all aspects of the JAGM program including configuration control of the missile specification, qualification of the missile and lifecycle management. Army Acquisition Objective is 20,303.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this items 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 2016 Army											Date: February 2015							
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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		-		-		27.738		-		27.738				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P1) (\$ in Millions)				-		-		-		27.738		-		27.738				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		-		-		27.738		-		27.738				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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																		
Millimeter Wave Assembly	-	-	-	-	-	-	-	-	-	16.647	286	4.761	-	-	-	16.647	286	4.761
HELLFIRE Backend	-	-	-	-	-	-	-	-	-	80.339	286	22.977	-	-	-	80.339	286	22.977
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	27.738	-	-	-	-	-	27.738
Subtotal: Flyaway Cost	-	-	-	-	-	-	-	-	-	-	-	27.738	-	-	-	-	-	27.738
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	27.738	-	-	-	-	-	27.738
Secondary Distribution						FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Army			Quantity			-		-		-		-		-				
			Total Obligation Authority			-		-		27.738		-		27.738				
Total: Secondary Distribution			Quantity			-		-		-		-		-				
			Total Obligation Authority			-		-		27.738		-		27.738				

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
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<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
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>Program Elements for Code B Items:</b>	<b>Other Related Program Elements:</b> 0604611A
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<b>Line Item MDAP/MAIS Code:</b>	<b>Item MDAP/MAIS Code(s):</b> 280
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	27,079	564	311	331	-	331	306	290	263	594	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4,403.262	110.510	72.877	77.163	-	77.163	74.218	72.919	69.044	128.278	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	100.622	-	-	-	-	-	-	-	-	-	-	100.622
Net Procurement (P1) ( <i>\$ in Millions</i> )	4,302.640	110.510	72.877	77.163	-	77.163	74.218	72.919	69.044	128.278	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	100.622	-	-	-	-	-	-	-	-	-	-	100.622
Total Obligation Authority ( <i>\$ in Millions</i> )	4,403.262	110.510	72.877	77.163	-	77.163	74.218	72.919	69.044	128.278	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> )	162.608	195.940	234.331	233.121	-	233.121	242.542	251.445	262.525	215.956	Continuing	Continuing

**Description:**

Javelin provides the United States Army and United States Marine Corp (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 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.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	427	311	331	-	331	306	290	263	594
	Total Obligation Authority	91.700	72.877	77.163	-	77.163	74.218	72.919	69.044	128.278
ANG	Quantity	137	-	-	-	-	-	-	-	-
	Total Obligation Authority	18.810	-	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>564</b>	<b>311</b>	<b>331</b>	<b>-</b>	<b>331</b>	<b>306</b>	<b>290</b>	<b>263</b>	<b>594</b>
	<b>Total Obligation Authority</b>	<b>110.510</b>	<b>72.877</b>	<b>77.163</b>	<b>-</b>	<b>77.163</b>	<b>74.218</b>	<b>72.919</b>	<b>69.044</b>	<b>128.278</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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) :			<b>Program Elements for Code B Items:</b>			<b>Other Related Program Elements:</b> 0604611A		
<b>Line Item MDAP/MAIS Code:</b>			<b>Item MDAP/MAIS Code(s):</b> 280					
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
H06102 / JAVELIN (AAWS-M)	P-5, P-5a, P-21		27,079 / 4,403.262	564 / 110.510	311 / 72.877	331 / 77.163	- / -	331 / 77.163
<b>Total Gross/Weapon System Cost</b>			<b>27,079 / 4,403.262</b>	<b>564 / 110.510</b>	<b>311 / 72.877</b>	<b>331 / 77.163</b>	<b>- / -</b>	<b>331 / 77.163</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 add due to rounding.								
<p><b>Justification:</b> FY 16 Base procurement dollars in the amount of \$77.163 million support the procurement of 331 Missiles.</p> <p>The estimated missile unit prices in FY15 and out are based on combined United States Army, other services, and FMS procurements of 850 missiles per year. The increase in unit cost from FY14 to FY15 is because the estimated missile unit price for FY14 was based on a combined quantity of 1000 missiles per year, but FY15 and out are based on a combined quantity of 850 missiles per year.</p> <p>The P-40 Breakdown Quantity line in FY20 of 594 includes 294 missiles and 300 Lightweight Command Launch Units (CLU). Army Acquisition Objective is 7,407 (CLUs).</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 2016 Army												Date: February 2015						
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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				27,079		564		311		331		-		331				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				4,403.262		110.510		72.877		77.163		-		77.163				
Less PY Advance Procurement <i>(\$ in Millions)</i>				100.622		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				4,302.640		110.510		72.877		77.163		-		77.163				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				100.622		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				4,403.262		110.510		72.877		77.163		-		77.163				
(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>				162.608		195.940		234.331		233.121		-		233.121				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>(1)</sup>	99.332	27,221	2,703.909	159.621	427	68.158	174.376	311	54.231	175.683	331	58.151	-	-	-	175.683	331	58.151
Engineering Services	-	-	159.215	-	-	8.890	-	-	6.513	-	-	6.738	-	-	-	-	-	6.738
Engineering Change Orders	-	-	11.738	-	-	0.068	-	-	0.059	-	-	0.059	-	-	-	-	-	0.059
Acceptance Testing	-	-	56.377	-	-	0.816	-	-	0.974	-	-	0.985	-	-	-	-	-	0.985
Fielding	-	-	20.944	-	-	0.011	-	-	-	-	-	-	-	-	-	-	-	-
Project Management	-	-	129.154	-	-	8.219	-	-	6.625	-	-	6.701	-	-	-	-	-	6.701
Production Engineering	-	-	96.469	-	-	5.480	-	-	4.417	-	-	4.469	-	-	-	-	-	4.469
Publications/Technical Data	-	-	2.563	-	-	0.058	-	-	0.058	-	-	0.060	-	-	-	-	-	0.060
Command Launch Unit	106.786	7,771	829.832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLU Engineering Services	-	-	40.214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLU Engineering Change Orders	-	-	3.438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLU Fielding	-	-	53.396	-	-	0.616	-	-	-	-	-	-	-	-	-	-	-	-
CLU Retrofits	138.788	1,513	209.986	132.803	137	18.194	-	-	-	-	-	-	-	-	-	-	-	-
Field Tactical Trainers	18.228	2,481	45.223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Basic Skills Trainer	15.554	599	9.317	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2016 Army</b>										<b>Date:</b> February 2015							
<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)							

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b> 280							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	-	-	22.562	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	4,403.262	-	-	110.510	-	-	72.877	-	-	77.163	-	-	-	-	-	77.163
Subtotal: Flyaway Cost	-	-	4,403.262	-	-	110.510	-	-	72.877	-	-	77.163	-	-	-	-	-	77.163
Gross/Weapon System Cost	162.608	27,079	4,403.262	195.940	564	110.510	234.331	311	72.877	233.121	331	77.163	-	-	-	233.121	331	77.163

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	427	311	331	-	331
	Total Obligation Authority	91.700	72.877	77.163	-	77.163
ANG	Quantity	137	-	-	-	-
	Total Obligation Authority	18.810	-	-	-	-
Total: Secondary Distribution	Quantity	564	311	331	-	331
	Total Obligation Authority	110.510	72.877	77.163	-	77.163

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2016 Army								<b>Date:</b> February 2015			
<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)			

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 Round <sup>(†)</sup>		2014	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Jun 2014	May 2016	427	159.621	N		
All Up Round <sup>(†)</sup>		2015	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Apr 2015	Feb 2017	311	174.376	N		
All Up Round <sup>(†)</sup>		2016	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Mar 2016	Feb 2018	331	175.683	N		

<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. The estimated missile unit price for FY14 was based on a combined quantity of 1000 missiles per year. Estimated unit price for FY15 and out are based on combined U.S. Army, other services and FMS procurements of at least 850 missiles per year.



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Exhibit P-21, Production Schedule: PB 2016 Army																							Date: February 2015												
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 2014														Fiscal Year 2015														
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014														Calendar Year 2015														B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
All Up Round																																			
Prior Years Deliveries: 27221																																			
	1	2014	ARMY	427	-	427									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	427		
	1	2014	MC (‡)	336	-	336									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	336		
	1	2014	FMS (‡)	75	-	75									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75		
	1	2014	Total	838	-	838									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	838		
	1	2015	ARMY	311	-	311																					A -	-	-	-	-	-	-	311	
	1	2015	MC (‡)	90	-	90																					A -	-	-	-	-	-	-	90	
	1	2015	FMS (‡)	449	-	449																					A -	-	-	-	-	-	-	449	
	1	2015	Total	850	-	850																					-	-	-	-	-	-	-	850	
	1	2016	ARMY	331	-	331																											331		
	1	2016	FMS (‡)	519	-	519																											519		
	1	2016	Total	850	-	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	B A L				

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Exhibit P-21, Production Schedule: PB 2016 Army																							Date: February 2015													
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 2016													Fiscal Year 2017																
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT				Calendar Year 2016													Calendar Year 2017													B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
All Up Round																																				
Prior Years Deliveries: 27221																																				
	1	2014	ARMY	427	-	427	-	-	-	-	-	-	-	11	61	61	72	72	72	72	6	-	-	-	-									-		
	1	2014	MC (‡)	336	-	336	-	-	-	-	-	-	-	-	-	-	-	-	-	66	72	72	72	54	-											
	1	2014	FMS (‡)	75	-	75	-	-	-	-	-	-	-	-	-	-	-	-	-	18	57	-	-	-												
	1	2014	Total	838	-	838	-	-	-	-	-	-	-	11	61	61	72	72	72	72	72	90	129	72	54									-		
	1	2015	ARMY	311	-	311	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	70	71	71	29	-	-	-	-	-					
	1	2015	MC (‡)	90	-	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	48	-	-	-	-					
	1	2015	FMS (‡)	449	-	449	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	71	71		284					
	1	2015	Total	850	-	850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	70	71	71	71	71	71	71	71	284					
	1	2016	ARMY	331	-	331						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	331					
	1	2016	FMS (‡)	519	-	519						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	519					
	1	2016	Total	850	-	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	B A L					

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Exhibit P-21, Production Schedule: PB 2016 Army																				Date: February 2015																	
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 2018													Fiscal Year 2019																	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT				Calendar Year 2018												Calendar Year 2019												B A L			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
All Up Round																																					
Prior Years Deliveries: 27221																																					
	1	2014	ARMY	427	427	-																											-				
	1	2014	MC (+)	336	336	-																											-				
	1	2014	FMS (+)	75	75	-																											-				
	1	2014	Total	838	838	-																											-				
	1	2015	ARMY	311	311	-	-	-	-	-																											-
	1	2015	MC (+)	90	90	-	-	-	-	-																											-
	1	2015	FMS (+)	449	165	284	71	71	71	71																											-
	1	2015	Total	850	566	284	71	71	71	71																											-
	1	2016	ARMY	331	-	331	-	-	-	-	71	71	71	71	47	-	-	-	-	-	-	-													-		
	1	2016	FMS (+)	519	-	519	-	-	-	-	-	-	-	24	71	71	71	71	71	70	70	-															
	1	2016	Total	850	-	850	-	-	-	-	71	71	71	71	71	71	71	71	71	70	70	-															
	1	2016	Total	850	-	850	-	-	-	-	71	71	71	71	71	71	71	71	71	70	70	-															
							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	B A L						

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Exhibit P-21, Production Schedule: PB 2016 Army									Date: February 2015				
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)			
		Production Rates (Each / Month)			Procurement Leadtime (Months)								
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	JJV All Up Round - Tucson AZ Orlando FL	850	3,960	6,480	11	3	22	25	1	1	22	23	
Remarks: Estimated unit price for FY15 and out are based on combined U.S. Army, other services and FMS procurements of at least 850 missiles per year.Production rates are yearly rates.													
(‡) 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 2016 Army	<b>Date:</b> February 2015
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<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
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	165,551	988	1,008	1,704	-	1,704	743	486	518	487	-	171,485
Gross/Weapon System Cost <i>(\$ in Millions)</i>	3,119.602	69.255	70.333	107.509	-	107.509	85.475	68.397	74.001	74.339	-	3,668.911
Less PY Advance Procurement <i>(\$ in Millions)</i>	117.357	19.901	19.965	19.984	-	19.984	-	-	-	-	-	177.207
Net Procurement (P1) <i>(\$ in Millions)</i>	3,002.245	49.354	50.368	87.525	-	87.525	85.475	68.397	74.001	74.339	-	3,491.704
Plus CY Advance Procurement <i>(\$ in Millions)</i>	137.258	19.965	19.984	-	-	-	-	-	-	-	-	177.207
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>3,139.503</b>	<b>69.319</b>	<b>70.352</b>	<b>87.525</b>	<b>-</b>	<b>87.525</b>	<b>85.475</b>	<b>68.397</b>	<b>74.001</b>	<b>74.339</b>	<b>-</b>	<b>3,668.911</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>	18.844	70.096	69.775	63.092	-	63.092	115.040	140.735	142.859	152.647	-	21.395

**Description:**

TOW missiles (BGM-71 Series) are combat proven missiles that provide heavy anti-armor/assault capability to the Army's Infantry Brigade Combat Teams (IBCT), the Stryker Brigade Combat Teams (SBCT) and the Bradley equipped Armor Brigade Combat Team (ABCT). TOW continues to be used consistently in Operation Enduring Freedom (OEF) as the weapon of choice in precision combat engagements. TOW missiles are the primary heavy anti-armor / assault missile for the U.S. Marine Corps (USMC) and 43 allied nations. Warfighters employ TOW missiles against buildings and field fortifications taking advantage of the missile's inherent precision assault capability against such targets.

TOW missiles are launched from a variety of combat systems in the active Army and Army National Guard including the Improved Target Acquisition System (ITAS), all infantry and cavalry variants of Bradley Fighting Vehicle Systems (BFVS), the Stryker Anti-Tank Guided Missile (ATGM), and the M220A2 TOW 2 launcher. The USMC employs the TOW missile from its ITAS launchers, Light Armor Vehicle Anti-tank and AH-1W Cobra helicopters. The TOW missile provides the Warfighter with a highly lethal, cost effective, interoperable, multi-purpose weapon.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	988	1,008	1,704	-	1,704	743	486	518	487
	Total Obligation Authority	69.319	70.352	87.525	-	87.525	85.475	68.397	74.001	74.339
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	<b>988</b>	<b>1,008</b>	<b>1,704</b>	<b>-</b>	<b>1,704</b>	<b>743</b>	<b>486</b>	<b>518</b>	<b>487</b>
	<b>Total Obligation Authority</b>	<b>69.319</b>	<b>70.352</b>	<b>87.525</b>	<b>-</b>	<b>87.525</b>	<b>85.475</b>	<b>68.397</b>	<b>74.001</b>	<b>74.339</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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>			<b>Other Related Program Elements:</b>		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C59403 / TOW Family of Missiles	P-5, P-5a, P-21		165,551 / 3,119.602	988 / 69.255	1,008 / 70.333	1,704 / 107.509	- / -	1,704 / 107.509
<b>Total Gross/Weapon System Cost</b>			<b>165,551 / 3,119.602</b>	<b>988 / 69.255</b>	<b>1,008 / 70.333</b>	<b>1,704 / 107.509</b>	<b>- / -</b>	<b>1,704 / 107.509</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 add due to rounding.								
<p><b>Justification:</b>  FY 2016 Base procurement dollars in the amount of \$87.525 million supports the fifth year of the current five-year (FY12-16) multi-year contract.</p> <p>The current FY12-16 multi-year contract procures 6,052 TOW missiles. The FY12 procurement quantity was 1,104. The FY13 quantity was 1,396. The FY14-16 procurement quantities are as given above.</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 components 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 leverage 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 2016 Army												Date: February 2015									
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 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
Procurement Quantity <i>(Units in Each)</i>				165,551			988			1,008			1,704			-			1,704		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				3,119.602			69.255			70.333			107.509			-			107.509		
Less PY Advance Procurement <i>(\$ in Millions)</i>				117.357			19.901			19.965			19.984			-			19.984		
Net Procurement (P1) <i>(\$ in Millions)</i>				3,002.245			49.354			50.368			87.525			-			87.525		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				137.258			19.965			19.984			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				3,139.503			69.319			70.352			87.525			-			87.525		
(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>				18.844			70.096			69.775			63.092			-			63.092		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																					
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>		18.519	165,551	3,065.891	58.603	988	57.900	58.908	1,008	59.379	67.698	1,704	115.357	-	-	-	67.698	1,704	115.357		
Engineering Services		-	-	13.480	-	-	2.106	-	-	2.327	-	-	2.393	-	-	-	-	-	2.393		
Acceptance Testing		-	-	2.926	-	-	0.488	-	-	1.445	-	-	1.524	-	-	-	-	-	1.524		
Project Mgt Admin		-	-	17.456	-	-	6.697	-	-	7.163	-	-	8.219	-	-	-	-	-	8.219		
Less: Prior Year Adv Proc		-	-	-117.357	-	-	-19.901	-	-	-19.965	-	-	-19.984	-	-	-	-	-	-19.984		
PLUS P-1 CY Adv. Proc.		-	-	137.258	-	-	19.965	-	-	19.984	-	-	-	-	-	-	-	-	-		
Subtotal: Recurring Cost		-	-	3,119.602	-	-	69.255	-	-	70.333	-	-	107.509	-	-	-	-	-	107.509		
Subtotal: Flyaway Cost		-	-	3,119.602	-	-	69.255	-	-	70.333	-	-	107.509	-	-	-	-	-	107.509		
Gross/Weapon System Cost		18.844	165,551	3,119.602	70.096	988	69.255	69.775	1,008	70.333	63.092	1,704	107.509	-	-	-	63.092	1,704	107.509		
Secondary Distribution																					
Army				Quantity			988			1,008			1,704			-			1,704		
				Total Obligation Authority			69.319			70.352			87.525			-			87.525		
Total: Secondary Distribution				Quantity			988			1,008			1,704			-			1,704		
				Total Obligation Authority			69.255			70.333			107.509			-			107.509		

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# LI C59300 - TOW 2 System Summary

## Army



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Exhibit P-5a, Procurement History and Planning: PB 2016 Army								Date: February 2015				
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	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
Missile Contract <sup>(†)</sup>		2014	Raytheon / Tucson, AZ	SS / FFP	AMCOM, Redstone Arsenal, AL	Nov 2013	Nov 2015	988	58.603	N		
Missile Contract <sup>(†)</sup>		2015	Raytheon / Tucson, AZ	SS / FFP	AMCOM, Redstone Arsenal, AL	Dec 2014	Jul 2016	1,008	58.908	N		
Missile Contract <sup>(†)</sup>		2016	Raytheon / Tucson, AZ	SS / FFP	AMCOM, Redstone Arsenal, AL	Dec 2015	Dec 2017	1,704	67.698	N		
Advance Procurement												
Warhead		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2014	Aug 2015	7	-			
Warhead		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Aug 2016	7	-			
Launch Motor		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2014	Mar 2015	1	-			
Launch Motor		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Mar 2016	1	-			
Flight Motor		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2014	Jan 2015	0	-			
Flight Motor		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Jan 2016	0	-			
2B Sensor		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2014	Jul 2015	9	-			
2B Sensor		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Jul 2016	9	-			
Gyro		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2014	Feb 2015	2	-			
Gyro		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Feb 2016	2	-			
Flight Motor Case Kit		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2014	Jan 2015	0	-			
Flight Motor Case Kit		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Jan 2016	0	-			
Control Surface Actuators		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2014	Feb 2015	1	-			
Control Surface Actuators		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Feb 2016	1	-			
Beacon Shutter Actuator		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2014	Jan 2015	1	-			
Beacon Shutter Actuator		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Jan 2016	1	-			
(†) indicates the presence of a P-21												

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army		Date: February 2015
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
<b>Remarks:</b> 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  FY16 is the fifth year of a five year multi-year.		

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Exhibit P-21, Production Schedule: PB 2016 Army																							Date: February 2015														
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 <i>(Units in Thousands)</i>							Fiscal Year 2014												Fiscal Year 2015																		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014																		Calendar Year 2015												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
Missile Contract																																					
Prior Years Deliveries: 165551																																					
	1	2014	ARMY (IV)	.988	-	.988		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.988						
	1	2014	MC (‡) (V)	.946	-	.946		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.946						
	1	2014	FMS (‡) (VI)	13.932	-	13.932		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.932						
	1	2014	Total	15.866	-	15.866		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.866						
	1	2015	ARMY (VII)	1.008	-	1.008															A	-	-	-	-	-	-	-	-	-	1.008						
	1	2015	MC (‡) (VIII)	.112	-	.112															A	-	-	-	-	-	-	-	-	-	.112						
	1	2015	Total	1.120	-	1.120															-	-	-	-	-	-	-	-	-	-	1.120						
	1	2016	ARMY (IX)	1.704	-	1.704																									1.704						
	1	2016	MC (‡) (X)	.416	-	.416																									.416						
	1	2016	Total	2.120	-	2.120																									2.120						
							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	B A L						

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Exhibit P-21, Production Schedule: PB 2016 Army																							Date: February 2015															
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 Thousands)							Fiscal Year 2016													Fiscal Year 2017																		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016																			Calendar Year 2017												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
Missile Contract																																						
Prior Years Deliveries: 165551																																						
	1	2014	ARMY <sup>(IV)</sup>	.988	-	.988	-	.149	.175	.175	.175	.175	.139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
	1	2014	MC <sup>(†)</sup> <sup>(V)</sup>	.946	-	.946	-	-	-	-	-	-	.237	.237	.237	.235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
	1	2014	FMS <sup>(‡)</sup> <sup>(VI)</sup>	13.932	-	13.932	-	-	-	-	-	-	-	-	.327	.327	.327	.304	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	9.490							
	1	2014	Total	15.866	-	15.866	-	.149	.175	.175	.175	.175	.376	.237	.237	.562	.327	.327	.304	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	9.490							
	1	2015	ARMY <sup>(VII)</sup>	1.008	-	1.008	-	-	-	-	-	-	-	-	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084					-							
	1	2015	MC <sup>(‡)</sup> <sup>(VIII)</sup>	.112	-	.112	-	-	-	-	-	-	-	-	.009	.009	.009	.009	.009	.009	.009	.009	.009	.010	.010	.010	.010					-						
	1	2015	Total	1.120	-	1.120	-	-	-	-	-	-	-	-	.093	.093	.093	.093	.093	.093	.093	.093	.093	.094	.094	.094	.094					-						
	1	2016	ARMY <sup>(IX)</sup>	1.704	-	1.704			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.704							
	1	2016	MC <sup>(‡)</sup> <sup>(X)</sup>	.416	-	.416			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.083	.083	.083	.167							
	1	2016	Total	2.120	-	2.120			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.083	.083	.083	1.871							
							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	B A L							

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Exhibit P-21, Production Schedule: PB 2016 Army																				Date: February 2015														
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 <i>(Units in Thousands)</i>							Fiscal Year 2018												Fiscal Year 2019															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T O 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												B A L			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
Missile Contract																																		
Prior Years Deliveries: 165551																																		
	1	2014	ARMY <sup>(IV)</sup>	.988	.988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	1	2014	MC <sup>(†)</sup> <sup>(V)</sup>	.946	.946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	1	2014	FMS <sup>(‡)</sup> <sup>(VI)</sup>	13.932	4.442	9.490	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	2.592			
	1	2014	Total	15.866	6.376	9.490	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.287	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	2.592			
	1	2015	ARMY <sup>(VII)</sup>	1.008	1.008	-																										-		
	1	2015	MC <sup>(†)</sup> <sup>(VIII)</sup>	.112	.112	-																										-		
	1	2015	Total	1.120	1.120	-																										-		
	1	2016	ARMY <sup>(IX)</sup>	1.704	-	1.704	-	-	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142															-
	1	2016	MC <sup>(†)</sup> <sup>(X)</sup>	.416	.249	.167	.083	.084	-	-	-	-	-	-	-	-	-	-	-															-
	1	2016	Total	2.120	.249	1.871	.083	.084	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142															-	
							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	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Army																			Date: February 2015																			
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 Thousands)							Fiscal Year 2020											Fiscal Year 2021																				
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 9	BAL D U E A S O F 1 O C T	Calendar Year 2020																	Calendar Year 2021														
							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	B A L							
Missile Contract																																						
Prior Years Deliveries: 165551																																						
	1	2014	ARMY <sup>(IV)</sup>	.988	.988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	1	2014	MC <sup>(†)</sup> <sup>(V)</sup>	.946	.946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	1	2014	FMS <sup>(‡)</sup> <sup>(VI)</sup>	13.932	11.340	2.592	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	-				
	1	2014	Total	15.866	13.274	2.592	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	.288	-				
	1	2015	ARMY <sup>(VII)</sup>	1.008	1.008	-																		-														
	1	2015	MC <sup>(‡)</sup> <sup>(VIII)</sup>	.112	.112	-																		-														
	1	2015	Total	1.120	1.120	-																		-														
	1	2016	ARMY <sup>(IX)</sup>	1.704	1.704	-																		-														
	1	2016	MC <sup>(‡)</sup> <sup>(X)</sup>	.416	.416	-																		-														
	1	2016	Total	2.120	2.120	-																		-														
							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	B A L							

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<b>Exhibit P-21, Production Schedule:</b> PB 2016 Army										<b>Date:</b> February 2015			
<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>Production Rates (Each / Year)</b>			<b>Procurement Leadtime (Months)</b>								
<b>MFR Ref #</b>	<b>MFR Name - Location</b>	<b>MSR For 2016</b>	<b>1-8-5 For 2016</b>	<b>MAX For 2016</b>	<b>Initial</b>				<b>Reorder</b>				
					<b>ALT Prior to Oct 1</b>	<b>ALT After Oct 1</b>	<b>Mfg PLT</b>	<b>Total After Oct 1</b>	<b>ALT Prior to Oct 1</b>	<b>ALT After Oct 1</b>	<b>Mfg PLT</b>	<b>Total After Oct 1</b>	
1	Raytheon - Tucson, AZ	2,100	7,200	16,800	3	2	16	18	3	2	16	18	

**Remarks:**  
 Multiyear contracts do not follow the Administrative Lead Time shown for annual year contracts.FY12-16 Army MultiYear: 6052,FY12 USMC: 729; FY13 USMC: 548.FY14 USMC: 886; FY14 OMAN: 137; SANG: 13795. FY15: 1008, FY16: 1704.FY17-FY21 Army: 2745 (FY17: 743, FY18: 486, FY19: 518, FY20: 487, FY21: 511)10 U.S. Code #2431 and DoD Financial Mgt Reg Vol 2B, Ch4 mandate Production Rates be defined in terms of "budget year."

(±) 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:**  
 (IV) BASE  
 (V) BASE  
 (VI) BASE  
 (VII) BASE  
 (VIII) OCO  
 (IX) BASE  
 (X) BASE

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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
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<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
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Program Elements for Code B Items:					Other Related Program Elements:							
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Gross/Weapon System Cost (\$ in Millions)	137.258	19.965	19.984	-	-	-	-	-	-	-	-	177.207
Net Procurement (P1) (\$ in Millions)	137.258	19.965	19.984	-	-	-	-	-	-	-	-	177.207
<b>Total Obligation Authority (\$ in Millions)</b>	<b>137.258</b>	<b>19.965</b>	<b>19.984</b>	-	-	-	-	-	-	-	-	<b>177.207</b>

**Description:**

Description:  
 TOW missiles (BGM-71 Series) are combat proven missiles that provide heavy anti-armor/assault capability to the Army's Infantry Brigade Combat Teams (IBCT), the Stryker Brigade Combat Teams (SBCT) and the Bradley equipped Armor Brigade Combat Team (ABCT). TOW continues to be used consistently in Operation Enduring Freedom (OEF) as the weapon of choice in precision combat engagements. TOW missiles are the primary heavy anti-armor / assault missile for the U.S. Marine Corps (USMC) and 43 allied nations. Warfighters employ TOW missiles against buildings and field fortifications taking advantage of the missile's inherent 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), and the M220A2 TOW 2 launcher. The USMC employs the TOW missile from its ITAS launchers, Light Armor Vehicle Anti-tank and AH-1W Cobra helicopters. The TOW missile provides the Warfighter with a highly lethal, cost effective, interoperable, multi-purpose weapon.



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<b>Exhibit P-40, Advance Procurement Budget Line Item Justification:</b> PB 2016 Army						<b>Date:</b> February 2015		
<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>					<b>Other Related Program Elements:</b>			
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C59403 / TOW Family of Missiles	P-10		- / 137.258	- / 19.965	- / 19.984	- / -	- / -	- / -
<b>Total Gross/Weapon System Cost</b>			<b>- / 137.258</b>	<b>- / 19.965</b>	<b>- / 19.984</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 add due to rounding.</p>								
<p><b>Justification:</b> There was no funding for advanced procurement in FY2016.</p>								

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<b>Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification):</b> PB 2016 Army					<b>Date:</b> February 2015	
<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 (2016) Award Date:</b> August 2012		<b>First System (2016) Completion Date:</b> March 2014		<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 2014</b> <i>(Each)</i>	<b>FY 2015</b> <i>(Each)</i>	<b>FY 2016</b> <i>(Each)</i>
Quantity			165,551	988	1,008	1,704
<b>Cost Element</b>	<b>When Rqd</b> <i>(Months)</i>	<b>Prior Years</b> <i>(\$ M)</i>	<b>FY 2014</b> <i>(\$ M)</i>	<b>FY 2015</b> <i>(\$ M)</i>	<b>FY 2016</b> <i>(\$ M)</i>	
<b>Other</b>						
Warhead <sup>(†)</sup>	19	57.293	6.999	7.018	-	
Launch Motor <sup>(†)</sup>	14	7.493	0.905	0.905	-	
Flight Motor <sup>(†)</sup>	12	2.478	0.170	0.170	-	
2B Sensor <sup>(†)</sup>	18	42.194	8.533	8.533	-	
Gyro <sup>(†)</sup>	13	12.816	1.548	1.548	-	
Flight Motor Case Kit <sup>(†)</sup>	10	2.906	0.351	0.351	-	
Control Surface Actuators <sup>(†)</sup>	13	7.584	0.916	0.916	-	
Beacon Shutter Actuator <sup>(†)</sup>	11	4.494	0.543	0.543	-	
<i>Total: Other</i>		<i>137.258</i>	<i>19.965</i>	<i>19.984</i>	-	
<b>Total Advance Procurement/Obligation Authority</b>		<b>137.258</b>	<b>19.965</b>	<b>19.984</b>	-	

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2016 Army						Date: February 2015	
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 2016					
		Production Leadtime (Months)	Unit Cost (\$ K)	Contract Forecast Date	2016 Qty (Each)	For FY	Total Cost Request (\$ M)
Other							
Warhead <sup>(†)</sup>	-						-
Launch Motor <sup>(†)</sup>	-						-
Flight Motor <sup>(†)</sup>	-						-
2B Sensor <sup>(†)</sup>	-						-
Gyro <sup>(†)</sup>	-						-
Flight Motor Case Kit <sup>(†)</sup>	-						-
Control Surface Actuators <sup>(†)</sup>	-						-
Beacon Shutter Actuator <sup>(†)</sup>	-						-
Total: Other							-
Total Advance Procurement/Obligation Authority							-

**Description:**

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

<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 2016 Army										<b>Date:</b> February 2015		
<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) :				<b>Program Elements for Code B Items:</b>				<b>Other Related Program Elements:</b> 0603778A, 0205778A				
<b>Line Item MDAP/MAIS Code:</b>		<b>Item MDAP/MAIS Code(s):</b> 260										
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	19,942	2,166	774	1,668	-	1,668	1,152	1,074	1,098	1,296	13,994	43,164
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2,335.735	273.025	127.145	251.060	-	251.060	155.428	170.820	205.038	232.632	1,989.762	5,740.645
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	2,335.735	273.025	127.145	251.060	-	251.060	155.428	170.820	205.038	232.632	1,989.762	5,740.645
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>2,335.735</b>	<b>273.025</b>	<b>127.145</b>	<b>251.060</b>	<b>-</b>	<b>251.060</b>	<b>155.428</b>	<b>170.820</b>	<b>205.038</b>	<b>232.632</b>	<b>1,989.762</b>	<b>5,740.645</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> )	117.126	126.050	164.270	150.516	-	150.516	134.920	159.050	186.738	179.500	142.187	132.996
<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 lb high explosive warhead to engage point targets with limited collateral damage. GMLRS Unitary is currently in its sixth year of full rate production through annual production contracts. GMLRS Alternative Warhead (AW) is being developed as a non-cluster munition to replace GMLRS DPICM. The Program is currently in the EMD Phase and scheduled to enter full rate production in FY15. The GMLRS AW rocket is 90% common with the Unitary variant. The U.S. Army continues to execute the GMLRS Program with no major cost, schedule, or performance issues.</p> <p>GMLRS Procurement funding (C64400) includes GMLRS full rate production as well as the procurement of Multiple Launch Rocket System (MLRS) Common Test Devices (C65406).</p>												
<b>Secondary Distribution</b>		<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>		
Army	Quantity	2,166	774	1,668	-	1,668	1,152	1,074	1,098	1,296		
	Total Obligation Authority	273.025	127.145	251.060	-	251.060	155.428	170.820	205.038	232.632		
<b>Total:</b>	<b>Quantity</b>	<b>2,166</b>	<b>774</b>	<b>1,668</b>	<b>-</b>	<b>1,668</b>	<b>1,152</b>	<b>1,074</b>	<b>1,098</b>	<b>1,296</b>		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army							Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys					P-1 Line Item Number / Title: C64400 / Guided MLRS Rocket (GMLRS)					
ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements: 0603778A, 0205778A				
Line Item MDAP/MAIS Code:		Item MDAP/MAIS Code(s): 260								
Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Secondary Distribution	Total Obligation Authority	273.025	127.145	251.060	-	251.060	155.428	170.820	205.038	232.632

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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) :			<b>Program Elements for Code B Items:</b>			<b>Other Related Program Elements:</b> 0603778A, 0205778A		
<b>Line Item MDAP/MAIS Code:</b>		<b>Item MDAP/MAIS Code(s):</b> 260						
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C65404 / GUIDED MLRS ROCKET (GMLRS)	P-5, P-5a, P-21		19,942 / 2,333.982	2,166 / 272.592	774 / 126.707	1,668 / 250.617	- / -	1,668 / 250.617
C65406 / GMLRS Training Devices	P-40a		- / 1.753	- / 0.433	- / 0.438	- / 0.443	- / -	- / 0.443
<b>Total Gross/Weapon System Cost</b>			<b>19,942 / 2,335.735</b>	<b>2,166 / 273.025</b>	<b>774 / 127.145</b>	<b>1,668 / 251.060</b>	<b>- / -</b>	<b>1,668 / 251.060</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 add due to rounding.								
<p><b>Justification:</b></p> <p>FY 2016 Base procurement dollars in the amount of \$251.617 million supports the acquisition of 1668 GMLRS Alternative Warhead (AW)rockets for the United States Army and procures the support and equipment for maintenance and obsolescence issues with the fielded Multiple Launch Rocket System Common Test Device (MCTD) Trainers hardware and software.</p> <p>Army Acquisition Objective is 140,004.</p> <p>FY2016 Base procurement dollars in the amount of \$.443 million supports the acquisition of support and equipment for maintenance and obsolesence issues with the fielded MCTD Trainers hardware and software.</p> <p>All funding goes to the Active Component.</p> <p>The column on the Tactical GMLRS line in the P-5 for base rockets includes base rocket quantity cost and other production contract CLINs such as Army Integrated Logistic Support (ILS) and Obsolescence.</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 2016 Army											Date: February 2015							
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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (Units in Each)				19,942		2,166		774		1,668		-		1,668				
Gross/Weapon System Cost (\$ in Millions)				2,333.982		272.592		126.707		250.617		-		250.617				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P1) (\$ in Millions)				2,333.982		272.592		126.707		250.617		-		250.617				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				2,333.982		272.592		126.707		250.617		-		250.617				
(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)				117.039		125.850		163.704		150.250		-		150.250				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	-	-	1,973.642	107.307	2,166	232.426	115.351	774	89.282	126.840	1,668	211.569	-	-	-	126.840	1,668	211.569
Engineering Services	-	-	69.293	-	-	7.843	-	-	7.613	-	-	8.572	-	-	-	-	-	8.572
Ind Maint/Init Prod Fac	-	-	55.971	-	-	3.039	-	-	3.177	-	-	-	-	-	-	-	-	-
Government Test	-	-	38.153	-	-	6.479	-	-	6.326	-	-	6.726	-	-	-	-	-	6.726
First Destination Transportation	-	-	3.376	-	-	0.324	-	-	0.136	-	-	0.263	-	-	-	-	-	0.263
Production Engineering Support	-	-	139.191	-	-	17.003	-	-	14.495	-	-	15.912	-	-	-	-	-	15.912
Project Management Admin	-	-	54.356	-	-	5.477	-	-	5.678	-	-	5.685	-	-	-	-	-	5.685
Spares	-	-	-	-	-	-	-	-	-	-	-	1.890	-	-	-	-	-	1.890
Subtotal: Recurring Cost	-	-	2,333.982	-	-	272.592	-	-	126.707	-	-	250.617	-	-	-	-	-	250.617
Subtotal: Flyaway Cost	-	-	2,333.982	-	-	272.592	-	-	126.707	-	-	250.617	-	-	-	-	-	250.617
Gross/Weapon System Cost	117.039	19,942	2,333.982	125.850	2,166	272.592	163.704	774	126.707	150.250	1,668	250.617	-	-	-	150.250	1,668	250.617
Secondary Distribution						FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Army		Quantity				2,166		774		1,668		-		1,668				

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<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Army		<b>Date:</b> February 2015
<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)

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:260		
Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
	Total Obligation Authority	272.592	126.707	250.617	-	250.617
Total: Secondary Distribution	Quantity	2,166	774	1,668	-	1,668
	Total Obligation Authority	272.592	126.707	250.617	-	250.617

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



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Exhibit P-5a, Procurement History and Planning: PB 2016 Army								Date: February 2015				
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	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>		2016	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FFP	Aviation and Missile Command	Dec 2016	Apr 2017	1,668	126.840			

<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 GMLRS rocket.

\*Sole Source/Firm Fixed Price

\*\*Aviation and Missile Command, Redstone Arsenal, Alabama

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Exhibit P-21, Production Schedule: PB 2016 Army																				Date: February 2015																
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															
O 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														B A L	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
Tactical GMLRS Hardware																																				
	1	2016	ARMY	1,668	-	1,668			A -	-	-	-	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139								-
	1	2016	MC (‡)	78	-	78			A -	-	-	-	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7								-
	1	2016	Total	1,746	-	1,746			-	-	-	-	145	145	145	145	145	145	146	146	146	146	146	146	146	146	146								-	
							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	B A L					

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Exhibit P-21, Production Schedule: PB 2016 Army									Date: February 2015				
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)			
		Production Rates (Each / Month)			Procurement Leadtime (Months)								
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Lockheed Martin M.&F.C Sys. - Dallas, TX	90	250	500	-	2	16	18	-	2	16	18	
Remarks: Production of GMLRS varies as this program shares a production line with LCRRPRs. There are no production gaps during months that GMLRS are not being produced as LCRRPRs Rocket production continues.													
(±) 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-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Army															<b>Date:</b> February 2015				
<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>Aggregated Items Title:</b> Various				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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			-	-	1.753	-	-	0.433	-	-	0.438	-	-	0.443	-	-	-	-	-	0.443
Secondary Distribution																				
Army				-	-		-	0.433		-	0.438		-	0.443		-	-		-	0.443
Subtotal: GMLRS Training Devices			-	-	1.753	-	-	0.433	-	-	0.438	-	-	0.443	-	-	-	-	-	0.443
Total			-	-	1.753	-	-	0.433	-	-	0.438	-	-	0.443	-	-	-	-	-	0.443

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys							P-1 Line Item Number / Title: C65405 / MLRS Reduced Range Practice Rockets (RRPR)						
ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements: 0210602A					
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )		-	1,614	2,994	3,121	-	3,121	2,976	2,988	3,288	3,312	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )		153.670	19.022	17.274	17.428	-	17.428	24.389	24.108	24.961	25.606	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )		153.670	19.022	17.274	17.428	-	17.428	24.389	24.108	24.961	25.606	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )		153.670	19.022	17.274	17.428	-	17.428	24.389	24.108	24.961	25.606	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> )		-	11.786	5.770	5.584	-	5.584	8.195	8.068	7.592	7.731	Continuing	Continuing
Description: The Multiple Launch Rocket System (MLRS) Low Cost Reduced Range Practice Rocket (RRPR) is the only live training rocket for High Mobility Artillery Rocket System (HIMARS) and M270/M270A1 MLRS Launcher units/crews. RRPR meets a critical validated requirement for Active and National Guard HIMARS and M270A1 launcher units to achieve and maintain combat readiness. HIMARS and M270A1 Battalions are organic and attached to modular Fires Brigades supporting Brigade Combat Teams (BCTs), Joint Expeditionary Force, and Joint Special Operations Force combatant commanders. The training rocket has an inert payload section and blunt nose for inducing reduced range for use at multiple facilities in the United States and foreign countries.  RRPRs are manufactured by Lockheed Martin in Camden, Arkansas and Letterkenny Munitions Center (LEMC) in Chambersburg, Pennsylvania. LEMC provides an organic dual source producing no less than 20 percent of the fiscal year procurement quantity.													
Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020			
Army	Quantity	911	1,703	1,783	-	1,783	1,704	1,705	2,046	1,914			
	Total Obligation Authority	10.800	10.364	10.436	-	10.436	16.288	15.633	15.284	15.960			
ANG	Quantity	703	1,291	1,338	-	1,338	1,272	1,283	1,242	1,398			
	Total Obligation Authority	8.222	6.910	6.992	-	6.992	8.101	8.475	9.677	9.646			
Total: Secondary Distribution	Quantity	1,614	2,994	3,121	-	3,121	2,976	2,988	3,288	3,312			
	Total Obligation Authority	19.022	17.274	17.428	-	17.428	24.389	24.108	24.961	25.606			

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army						<b>Date:</b> February 2015	
<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>			<b>Other Related Program Elements:</b> 0210602A	
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>
<b>Title*</b>	<b>Exhibits</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>
C65405 / MLRS Reduced Range Practice Rockets (RRPR)	P-5, P-5a, P-21		- / 153.670	1,614 / 19.022	2,994 / 17.274	3,121 / 17.428	- / -
<b>Total Gross/Weapon System Cost</b>			<b>- / 153.670</b>	<b>1,614 / 19.022</b>	<b>2,994 / 17.274</b>	<b>3,121 / 17.428</b>	<b>- / -</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 add due to rounding.							

**Justification:**  
 FY2016 Base procurement dollars in the amount of \$17.428 million support funding to procure 3121 RRPRs which are required to maintain the practice rocket inventory for Standards in Training Commission (STRC) requirements.

The FY16 funding request was reduced for \$4.133 million to account for the availability of prior year execution balances.

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 2016 Army												Date: February 2015						
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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		1,614		2,994		3,121		-		3,121				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				153.670		19.022		17.274		17.428		-		17.428				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				153.670		19.022		17.274		17.428		-		17.428				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				153.670		19.022		17.274		17.428		-		17.428				
(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>				-		11.786		5.770		5.584		-		5.584				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	-	-	114.775	8.952	1,614	14.448	4.323	2,994	12.942	4.196	3,121	13.096	-	-	-	4.196	3,121	13.096
Warheads Govt Furnished Equip (GFE)	-	-	14.731	-	-	1.716	-	-	1.754	-	-	1.754	-	-	-	-	-	1.754
Engineering Services	-	-	2.923	-	-	0.302	-	-	0.251	-	-	0.251	-	-	-	-	-	0.251
Test and Evaluation	-	-	3.374	-	-	0.411	-	-	0.361	-	-	0.361	-	-	-	-	-	0.361
First Destination Transportation	-	-	0.749	-	-	0.016	-	-	0.148	-	-	0.148	-	-	-	-	-	0.148
Project Management Admin	-	-	7.378	-	-	0.646	-	-	0.567	-	-	0.567	-	-	-	-	-	0.567
Production Engineering Support	-	-	9.740	-	-	1.483	-	-	1.251	-	-	1.251	-	-	-	-	-	1.251
Subtotal: Recurring Cost	-	-	153.670	-	-	19.023	-	-	17.275	-	-	17.428	-	-	-	-	-	17.428
Subtotal: Flyaway Cost	-	-	153.670	-	-	19.023	-	-	17.275	-	-	17.428	-	-	-	-	-	17.428
Gross/Weapon System Cost	-	-	153.670	11.786	1,614	19.022	5.770	2,994	17.274	5.584	3,121	17.428	-	-	-	5.584	3,121	17.428

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<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Army		<b>Date:</b> February 2015
<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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	911	1,703	1,783	-	1,783
	Total Obligation Authority	10.800	10.364	10.436	-	10.436
ANG	Quantity	703	1,291	1,338	-	1,338
	Total Obligation Authority	8.222	6.910	6.992	-	6.992
Total: Secondary Distribution	Quantity	1,614	2,994	3,121	-	3,121
	Total Obligation Authority	19.022	17.274	17.428	-	17.428

(†) indicates the presence of a P-5a



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Exhibit P-5a, Procurement History and Planning: PB 2016 Army									Date: February 2015			
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>		2014	Lockheed Martin / Dallas	SS / FFP	AMCOM, RSA, AL	Dec 2013	Apr 2015	1,614	8.952	N		Sep 2013
Reduced Range Practice Rocket (LCRRPR) <sup>(†)</sup>		2015	Lockheed Martin / Dallas	SS / FFP	AMCOM,RSA,AL	Jan 2015	May 2016	2,994	4.323	N		Sep 2013
Reduced Range Practice Rocket (LCRRPR) <sup>(†)</sup>		2016	Lockheed Martin / Dallas	SS / FFP	AMCOM,RSA,AL	Dec 2015	Apr 2017	3,121	4.196	N		Aug 2015

<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.

LEMC provides an organic dual source producing no less than 20 percent of the fiscal year procurement quantity.

\* Sole source/Firm Fixed Price

\*\* Aviation and Missile Command, Redstone Arsenal, AL

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Exhibit P-21, Production Schedule: PB 2016 Army																				Date: February 2015														
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 2014											Fiscal Year 2015																
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 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	B A L			
Reduced Range Practice Rocket (LCRRPR)																																		
	1	2014	ARMY <sup>(XI)</sup>	1,614	-	1,614			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	201	201	201	201	201	201	408		
	1	2014	MC <sup>(‡)</sup> <sup>(XII)</sup>	204	-	204			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17	17	17	17	17	102			
	1	2014	Total	1,818	-	1,818			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	218	218	218	218	218	218	510			
	1	2015	ARMY <sup>(XIII)</sup>	2,994	-	2,994															A -	-	-	-	-	-	-	-	-	-	2,994			
	1	2015	MC <sup>(‡)</sup> <sup>(XIV)</sup>	642	-	642															A -	-	-	-	-	-	-	-	-	-	642			
	1	2015	Total	3,636	-	3,636															-	-	-	-	-	-	-	-	-	-	3,636			
	1	2016	ARMY <sup>(XV)</sup>	3,121	-	3,121																									3,121			
	1	2016	MC <sup>(‡)</sup> <sup>(XVI)</sup>	642	-	642																									642			
	1	2016	Total	3,763	-	3,763																									3,763			
							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	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Army																							Date: February 2015												
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 2016														Fiscal Year 2017														
O 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 5	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017														B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Reduced Range Practice Rocket (LCRRPR)																																			
	1	2014	ARMY (XI)	1,614	1,206	408	201	207	-	-	-	-																					-		
	1	2014	MC (‡) (XII)	204	102	102	17	17	17	17	17	17																					-		
	1	2014	Total	1,818	1,308	510	218	224	17	17	17	17																					-		
	1	2015	ARMY (XIII)	2,994	-	2,994	-	-	-	-	-	-	-	250	250	250	250	250	250	250	250	250	250	244	250								-		
	1	2015	MC (‡) (XIV)	642	-	642	-	-	-	-	-	-	-	53	53	53	53	53	53	53	53	53	53	59	53								-		
	1	2015	Total	3,636	-	3,636	-	-	-	-	-	-	-	303	303	303	303	303	303	303	303	303	303	303	303								-		
	1	2016	ARMY (XV)	3,121	-	3,121			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	260	260	260	260	260	260	1,561					
	1	2016	MC (‡) (XVI)	642	-	642			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	54	54	54	54	54	318					
	1	2016	Total	3,763	-	3,763			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	314	314	314	314	314	314	1,879					
							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	B A L				

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Exhibit P-21, Production Schedule: PB 2016 Army																			Date: February 2015													
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 2018												Fiscal Year 2019													
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												B A L	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
Reduced Range Practice Rocket (LCRRPR)																																
	1	2014	ARMY (XI)	1,614	1,614	-																										-
	1	2014	MC (†) (XII)	204	204	-																										-
	1	2014	Total	1,818	1,818	-																										-
	1	2015	ARMY (XIII)	2,994	2,994	-																										-
	1	2015	MC (†) (XIV)	642	642	-																										-
	1	2015	Total	3,636	3,636	-																										-
	1	2016	ARMY (XV)	3,121	1,560	1,561	260	260	260	260	260	261																			-	
	1	2016	MC (†) (XVI)	642	324	318	54	54	54	53	53	50																			-	
	1	2016	Total	3,763	1,884	1,879	314	314	314	313	313	311	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	B A L							

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<b>Exhibit P-21, Production Schedule:</b> PB 2016 Army								<b>Date:</b> February 2015			
<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)		

		Production Rates (Each / Month)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Lockheed Martin - Dallas	42	480	960	-	2	16	18	-	2	16	18

**Remarks:**

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

(‡) 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:**

(XI) BASE  
(XII) BASE  
(XIII) BASE  
(XIV) BASE  
(XV) BASE  
(XVI) BASE

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
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<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> C98510 / ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements: 0203802A				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	1,255	62	-	-	-	-	-	-	-	-	-	1,317
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,230.802	81.200	-	-	-	-	-	-	-	-	-	1,312.002
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	1,230.802	81.200	-	-	-	-	-	-	-	-	-	1,312.002
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1,230.802</b>	<b>81.200</b>	-	-	-	-	-	-	-	-	-	<b>1,312.002</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> )	980.719	1,309.677	-	-	-	-	-	-	-	-	-	996.205

**Description:**

Army Tactical Missile Systems (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 battlefield with long-range fires against hard and soft stationary targets in open, complex, and urban environments.

Army Acquisition Objective is 140.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	62	-	-	-	-	-	-	-	-
	Total Obligation Authority	81.200	-	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>62</b>	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>81.200</b>	-	-	-	-	-	-	-	-

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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> C98510 / ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>Program Elements for Code B Items:</b>			<b>Other Related Program Elements:</b> 0203802A		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C98501 / ATACMS BLK IA	P-40a		1,255 / 1,230.802	62 / 81.200	- / -	- / -	- / -	- / -
<b>Total Gross/Weapon System Cost</b>			<b>1,255 / 1,230.802</b>	<b>62 / 81.200</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</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 add due to rounding.								

**Justification:**

No FY16 funds requested.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Army															<b>Date:</b> February 2015				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 02 / 30								<b>P-1 Line Item Number / Title:</b> C98510 / ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM							<b>Aggregated Items Title:</b> Various				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)						
ATACMS BLK IA																										
C98501 / ATACMS BLK IA			980.719	1,255	1,230.802	1,309.677	62	81.200	-	-	-	-	-	-	-	-	-	-	-	-						
Secondary Distribution																										
Army				-	-		62	81.200		-	-		-	-		-	-		-	-						
Subtotal: ATACMS BLK IA			-	-	1,230.802	-	-	81.200	-	-	-	-	-	-	-	-	-	-	-	-						
Total			-	-	1,230.802	-	-	81.200	-	-	-	-	-	-	-	-	-	-	-	-						



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army										<b>Date:</b> February 2015		
<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>					<b>Other Related Program Elements:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2,732.695	326.438	183.838	241.883	-	241.883	207.692	321.879	354.907	197.147	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	2,732.695	326.438	183.838	241.883	-	241.883	207.692	321.879	354.907	197.147	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>2,732.695</b>	<b>326.438</b>	<b>183.838</b>	<b>241.883</b>	<b>-</b>	<b>241.883</b>	<b>207.692</b>	<b>321.879</b>	<b>354.907</b>	<b>197.147</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> )	-	-	-	30,235.375	-	30,235.375	-	-	-	-	Continuing	Continuing
<p><b>Description:</b></p> <p>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.</p> <p>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); the Modern Manstation (MMS) upgrade; Radar on the Net/Kit Integration; Enhanced Launcher Electronic Systems (ELES); and SIPRNet/NIPRNet Access Point/Troposcatter (SNAP/TROPO).</p> <p>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&amp;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&amp;S. Kit quantity is based on expected Engineering Change Proposals (ECPs) to be applied to Major End Items (MEIs). Annual kit procurement quantities may change because of production efficiencies or other cost reductions such as synergies with Foreign Military Sales requirements or Better Buying Power initiatives. Procurement will be in accordance with 10 USC Sect 2308 and DFARS Subpart 207.70, Buy-to-Budget.</p> <p>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.</p> <p>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 Battery Command Posts and Tactical Command Systems. Additionally, 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. Note: Quantities procured and installed in prior years.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications		P-1 Line Item Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
<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 growth 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). Also, 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 PATRIOT Maintenance Trainer (PMT) is a new device being developed and planned for fielding to the 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. 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 Reconfigurable Table Top Trainer (RT3). The Reconfigurable Table Top Trainer (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, PCOFT) for operations tasks, the PATRIOT Multi-Echelon Training (P-MET) software for maintenance tasks, and the PATRIOT Skills Library (PSL) lessons for both maintenance and operator tasks.</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 will increase 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. Note: Contract was awarded September 2013 for FY15 and FY16 deliveries.</p> <p>The Enhanced Launcher Electronics System (ELES) modification will upgrade 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 extra battalion communications. Troposcatter terminals allow connectivity between PATRIOT shelters when local terrain or long distances make organic UHF Line of Sight (LOS) 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>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army					<b>Date:</b> February 2015				
<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				

ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
Digital Sidelobe Canceller (DSLCL) - This 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.		

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	326.438	183.838	241.883	-	241.883	207.692	321.879	354.907	197.147
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>326.438</b>	<b>183.838</b>	<b>241.883</b>	-	<b>241.883</b>	<b>207.692</b>	<b>321.879</b>	<b>354.907</b>	<b>197.147</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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>			<b>Other Related Program Elements:</b>		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C50700 / PATRIOT MODS (Various)	P-3a		- / 2,732.695	- / 326.438	- / 183.838	- / 241.883	- / -	- / 241.883
<b>Total Gross/Weapon System Cost</b>			<b>- / 2,732.695</b>	<b>- / 326.438</b>	<b>- / 183.838</b>	<b>- / 241.883</b>	<b>- / -</b>	<b>- / 241.883</b>
<b>Exhibits Schedule</b>			<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
<b>Title*</b>	<b>Exhibits</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>
C50700 / PATRIOT MODS (Various)	P-3a		- / 207.692	- / 321.879	- / 354.907	- / 197.147	Continuing	Continuing
<b>Total Gross/Weapon System Cost</b>			<b>- / 207.692</b>	<b>- / 321.879</b>	<b>- / 354.907</b>	<b>- / 197.147</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 add due to rounding.								
<p><b>Justification:</b>  FY 2016 base procurement dollars in the amount of \$241.883 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), Air Defense Artillery (ADA) School Upgrades/Training Aids, Devices, Simulators and Simulations (TADSS), Radar Digital Processor-Configuration (RDP-C), Modern Manstation (MMS), Enhanced Launcher Electronics System (ELES), PATRIOT Maintenance Trainer (PMT), and PATRIOT Multi-Echelon Training (PMET).</p> <p>The increase in funding from FY15 to FY16 is primarily due to Air Defense Artillery School TADSS upgrades, converting Configuration 2 assets to Configuration 3 and procuring 4 additional radar kits. This effort will be complete in FY16.</p> <p>Efforts will 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.</p> <p>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.</p>								

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army								<b>Date:</b> February 2015			
<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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2,732.695	326.438	183.838	241.883	-	241.883	207.692	321.879	354.907	197.147	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	2,732.695	326.438	183.838	241.883	-	241.883	207.692	321.879	354.907	197.147	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	2,732.695	326.438	183.838	241.883	-	241.883	207.692	321.879	354.907	197.147	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> )	-	-	-	30,235.375	-	30,235.375	-	-	-	-	Continuing	Continuing

**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.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	326.438	183.838	241.883	-	241.883	207.692	321.879	354.907	197.147
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	326.438	183.838	241.883	-	241.883	207.692	321.879	354.907	197.147

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Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015					
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 13: RAM Mods													
A Kits													
Recurring													
Kit Quantity	6,338 / 588.536	86 / 9.773	90 / 11.317	110 / 17.100	- / -	110 / 17.100	100 / 13.200	102 / 12.050	102 / 11.620	91 / 10.820	Continuing	Continuing	
Training	0 / 23.046	- / 11.550	- / 10.224	- / 13.000	- / -	- / 13.000	- / 12.000	- / 13.000	- / 12.630	- / 12.355	Continuing	Continuing	
Training Equipment	0 / 6.404	- / 5.630	- / 5.643	- / 2.500	- / -	- / 2.500	- / 1.500	- / 1.500	- / 1.500	- / 1.500	Continuing	Continuing	
Support Equipment	0 / 11.642	- / 8.759	- / 8.441	- / 6.850	- / -	- / 6.850	- / 7.425	- / 6.125	- / 5.925	- / 5.000	Continuing	Continuing	
Other	0 / 26.407	- / 15.800	- / 13.225	- / 11.550	- / -	- / 11.550	- / 11.350	- / 10.750	- / 10.950	- / 10.950	Continuing	Continuing	
Integrated Logistics Support	0 / 3.052	- / 1.010	- / 1.150	- / 1.100	- / -	- / 1.100	- / 1.125	- / 0.975	- / 0.775	- / 0.775	Continuing	Continuing	
Subtotal: Recurring	- / 659.087	- / 52.522	- / 50.000	- / 52.100	- / -	- / 52.100	- / 46.600	- / 44.400	- / 43.400	- / 41.400	Continuing	Continuing	
Subtotal: RAM Mods	6,338 / 659.087	86 / 52.522	90 / 50.000	110 / 52.100	- / -	110 / 52.100	100 / 46.600	102 / 44.400	102 / 43.400	91 / 41.400	Continuing	Continuing	
Modification Item 2 of 13: Recapitalization													
A Kits													
Recurring													
Kit Quantity	11 / 182.181	1 / 10.000	1 / 10.000	1 / 11.200	- / -	1 / 11.200	1 / 12.600	1 / 12.650	1 / 13.100	1 / 13.700	Continuing	Continuing	
Other	0 / 9.736	- / 2.000	- / 2.000	- / 1.900	- / -	- / 1.900	- / 2.400	- / 2.650	- / 2.500	- / 1.300	Continuing	Continuing	
Subtotal: Recurring	- / 191.917	- / 12.000	- / 12.000	- / 13.100	- / -	- / 13.100	- / 15.000	- / 15.300	- / 15.600	- / 15.000	Continuing	Continuing	
Subtotal: Recapitalization	11 / 191.917	1 / 12.000	1 / 12.000	1 / 13.100	- / -	1 / 13.100	1 / 15.000	1 / 15.300	1 / 15.600	1 / 15.000	Continuing	Continuing	
Modification Item 3 of 13: BCP/TCS/CSM													
A Kits													
Recurring													
Engineering Change Orders	- / -	- / 1.000	- / 0.400	- / 0.660	- / -	- / 0.660	- / 0.770	- / 0.770	- / 0.770	- / 0.770	Continuing	Continuing	
Fielding Support	0 / 2.100	- / 0.400	- / 0.500	- / 0.840	- / -	- / 0.840	- / 0.980	- / 0.980	- / 0.980	- / 0.980	Continuing	Continuing	
Obsolescence/Tech Refresh	- / -	- / 0.200	- / 0.100	- / 0.240	- / -	- / 0.240	- / 0.280	- / 0.280	- / 0.280	- / 0.280	Continuing	Continuing	
Software/Systems Engineering	0 / 21.400	- / 5.900	- / 0.500	- / 0.840	- / -	- / 0.840	- / 0.980	- / 0.980	- / 0.980	- / 0.980	Continuing	Continuing	
Integrated Logistics Support	0 / 31.926	- / 4.500	- / 2.000	- / 3.420	- / -	- / 3.420	- / 3.990	- / 3.990	- / 3.990	- / 3.990	Continuing	Continuing	
Subtotal: Recurring	- / 55.426	- / 12.000	- / 3.500	- / 6.000	- / -	- / 6.000	- / 7.000	- / 7.000	- / 7.000	- / 7.000	Continuing	Continuing	
Non-Recurring													
BCP Kit Quantity	62 / 29.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
TCS Kit Quantity	17 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / -	
Subtotal: Non-Recurring	- / 29.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: BCP/TCS/CSM	79 / 84.426	- / 12.000	- / 3.500	- / 6.000	- / -	- / 6.000	- / 7.000	- / 7.000	- / 7.000	- / 7.000	Continuing	Continuing	

**UNCLASSIFIED**

Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015					
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 13: Combined Crypto Modification Phase I (CCMPI)													
A Kits													
Recurring													
Kit Quantity	- / -	33 / 11.400	39 / 12.500	78 / 25.400	- / -	78 / 25.400	- / -	- / -	- / -	- / -	Continuing	Continuing	
Kit Quantity (GFE)	- / -	- / -	- / 0.268	- / 0.268	- / -	- / 0.268	- / 0.268	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Recurring	- / -	- / 11.400	- / 12.768	- / 25.668	- / -	- / 25.668	- / 0.268	- / -	- / -	- / -	Continuing	Continuing	
Non-Recurring													
Training	- / -	- / -	- / 0.132	- / 0.132	- / -	- / 0.132	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Non-Recurring	- / -	- / -	- / 0.132	- / 0.132	- / -	- / 0.132	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Combined Crypto Modification Phase I (CCMPI)	- / -	33 / 11.400	39 / 12.900	78 / 25.800	- / -	78 / 25.800	- / 0.268	- / -	- / -	- / -	Continuing	Continuing	
Modification Item 5 of 13: Radar Digital Processor - Configuration (RDP-C)													
A Kits													
Recurring													
Kit Quantity	5 / 19.860	62 / 165.933	13 / 52.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Fielding	- / -	- / -	- / -	- / 4.000	- / -	- / 4.000	- / 4.000	- / 4.000	- / 2.000	- / -	Continuing	Continuing	
Support Equipment	- / -	- / 10.767	- / 26.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Recurring	- / 19.860	- / 176.700	- / 78.000	- / 4.000	- / -	- / 4.000	- / 4.000	- / 4.000	- / 2.000	- / -	Continuing	Continuing	
Subtotal: Radar Digital Processor - Configuration (RDP-C)	5 / 19.860	62 / 176.700	13 / 78.000	- / 4.000	- / -	- / 4.000	- / 4.000	- / 4.000	- / 2.000	- / -	Continuing	Continuing	
Modification Item 6 of 13: Air Defense Artillery School Upgrades/ TADSS													
A Kits													
Recurring													
ELES Kit Quantity	- / -	4 / 13.437	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Radar Kit Quantity	- / -	- / -	- / -	4 / 96.000	- / -	4 / 96.000	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Recurring	- / -	- / 13.437	- / -	- / 96.000	- / -	- / 96.000	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Air Defense Artillery School Upgrades/ TADSS	- / -	4 / 13.437	- / -	4 / 96.000	- / -	4 / 96.000	- / -	- / -	- / -	- / -	Continuing	Continuing	
Modification Item 7 of 13: Modern Manstation (MMS)													
A Kits													
Recurring													
Fielding	- / -	- / 1.600	- / 3.900	- / 2.300	- / -	- / 2.300	- / -	- / -	- / -	- / -	Continuing	Continuing	

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<b>Exhibit P-3a, Individual Modification: PB 2016 Army</b>										<b>Date:</b> February 2015		
<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 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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>
Support Equipment	82 / 54.919	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: Recurring</i>	- / 54.919	- / 1.600	- / 3.900	- / 2.300	- / -	- / 2.300	- / -	- / -	- / -	- / -	Continuing	Continuing
Non-Recurring												
Kit Quantity	82 / 54.919	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: Non-Recurring</i>	- / 54.919	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: Modern Manstation (MMS)</i>	164 / 109.838	- / 1.600	- / 3.900	- / 2.300	- / -	- / 2.300	- / -	- / -	- / -	- / -	Continuing	Continuing
<b>Modification Item 8 of 13: Enhanced Launcher Electronics System (ELES)</b>												
A Kits												
Recurring												
Kit Quantity	271 / 0.000	10 / 33.601	- / -	8 / 33.000	- / -	8 / 33.000	9 / 36.400	19 / 80.600	45 / 179.007	25 / 99.247	Continuing	Continuing
<i>Subtotal: Recurring</i>	- / 0.000	- / 33.601	- / -	- / 33.000	- / -	- / 33.000	- / 36.400	- / 80.600	- / 179.007	- / 99.247	Continuing	Continuing
<i>Subtotal: Enhanced Launcher Electronics System (ELES)</i>	271 / 0.000	10 / 33.601	- / -	8 / 33.000	- / -	8 / 33.000	9 / 36.400	19 / 80.600	45 / 179.007	25 / 99.247	Continuing	Continuing
<b>Modification Item 9 of 13: SNAP/TROPO</b>												
A Kits												
Recurring												
Kit Quantity SNAP	- / -	4 / 0.527	- / -	- / -	- / -	- / -	14 / 1.976	7 / 2.371	8 / 0.659	1 / 0.082	Continuing	Continuing
Support	- / -	- / 1.734	- / -	- / -	- / -	- / -	- / 5.958	- / 8.419	- / 2.181	- / 0.427	Continuing	Continuing
Integrated Logistics Support	- / -	- / 1.009	- / -	- / -	- / -	- / -	- / 2.186	- / 2.581	- / 2.581	- / 1.582	Continuing	Continuing
Training	- / -	- / 0.085	- / -	- / -	- / -	- / -	- / 0.113	- / 0.172	- / 0.055	- / 0.028	Continuing	Continuing
Equipment	- / -	- / 0.825	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: Recurring</i>	- / -	- / 4.180	- / -	- / -	- / -	- / -	- / 10.233	- / 13.543	- / 5.476	- / 2.119	Continuing	Continuing
Non-Recurring												
Kit Quantity TROPO	- / -	10 / 4.520	- / -	- / -	- / -	- / -	30 / 15.367	18 / 19.887	18 / 5.424	6 / 0.181	Continuing	Continuing
<i>Subtotal: Non-Recurring</i>	- / -	- / 4.520	- / -	- / -	- / -	- / -	- / 15.367	- / 19.887	- / 5.424	- / 0.181	Continuing	Continuing
<i>Subtotal: SNAP/TROPO</i>	- / -	14 / 8.700	- / -	- / -	- / -	- / -	44 / 25.600	25 / 33.430	26 / 10.900	7 / 2.300	Continuing	Continuing
<b>Modification Item 10 of 13: PATRIOT Maintenance Trainer (PMT)</b>												
A Kits												
Recurring												
Kit Quantity	- / -	- / -	1 / 15.941	- / -	- / -	- / -	1 / 15.000	2 / 27.000	- / -	- / -	Continuing	Continuing
<i>Subtotal: Recurring</i>	- / -	- / -	- / 15.941	- / -	- / -	- / -	- / 15.000	- / 27.000	- / -	- / -	Continuing	Continuing
Non-Recurring												



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Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015					
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)	
Training Support	- / -	- / -	- / -	- / 4.000	- / -	- / 4.000	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Non-Recurring	- / -	- / -	- / -	- / 4.000	- / -	- / 4.000	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: PATRIOT Maintenance Trainer (PMT)	- / -	- / -	1 / 15.941	- / 4.000	- / -	- / 4.000	1 / 15.000	2 / 27.000	- / -	- / -	Continuing	Continuing	
Modification Item 11 of 13: PATRIOT Multi-Echelon Training (PMET)													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	4 / 6.497	4 / 4.383	- / -	4 / 4.383	4 / 5.300	4 / 5.600	4 / 6.000	4 / 10.000	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / 6.497	- / 4.383	- / -	- / 4.383	- / 5.300	- / 5.600	- / 6.000	- / 10.000	Continuing	Continuing	
Subtotal: PATRIOT Multi-Echelon Training (PMET)	- / -	- / -	4 / 6.497	4 / 4.383	- / -	4 / 4.383	4 / 5.300	4 / 5.600	4 / 6.000	4 / 10.000	Continuing	Continuing	
Modification Item 12 of 13: Reconfigurable Table Top Trainers (RT3)													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	- / -	- / -	- / -	69 / 15.000	- / -	70 / 15.000	- / -	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.000	- / -	- / 15.000	- / -	Continuing	Continuing	
Subtotal: Reconfigurable Table Top Trainers (RT3)	- / -	- / -	- / -	- / -	- / -	- / -	69 / 15.000	- / -	70 / 15.000	- / -	Continuing	Continuing	
Modification Item 13 of 13: Digital Sidelobe Cancellor (DSLCL)													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	- / -	- / -	- / -	15 / 35.292	32 / 102.949	23 / 74.800	11 / 20.800	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 35.292	- / 102.949	- / 74.800	- / 20.800	Continuing	Continuing	
Subtotal: Digital Sidelobe Cancellor (DSLCL)	- / -	- / -	- / -	- / -	- / -	- / -	15 / 35.292	32 / 102.949	23 / 74.800	11 / 20.800	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	6,868 / 1,065.128	210 / 321.960	148 / 182.738	205 / 240.683	- / -	205 / 240.683	243 / 205.460	185 / 320.279	271 / 353.707	139 / 195.747	Continuing	Continuing	
Installation													
Modification Item 1 of 13: RAM Mods	6,338 / 142.244	22 / 3.478	88 / -	94 / -	- / -	94 / -	107 / -	101 / -	102 / -	101 / -	7,160 / -	14,113 / 145.722	
Modification Item 2 of 13: Recapitalization	11 / 201.191	1 / 1.000	1 / 1.000	1 / 1.000	- / -	1 / 1.000	1 / 1.000	1 / 1.100	1 / 1.200	1 / 1.400	12 / -	30 / 208.891	
Modification Item 3 of 13: BCP/TCS/CSM	79 / 1,324.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 1,324.132	
Modification Item 4 of 13: Combined Crypto Modification Phase I (CCMPI)	0 / 0.000	- / -	16 / 0.100	37 / 0.200	- / -	37 / 0.200	59 / 1.232	38 / 0.500	- / -	- / -	- / -	150 / 2.032	
Modification Item 5 of 13: Radar Digital Processor - Configuration (RDP-C)	5 / 0.000	- / -	- / -	16 / -	- / -	16 / -	50 / -	9 / -	- / -	- / -	- / -	80 / -	

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Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015				
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 6 of 13: Air Defense Artillery School Upgrades/ TADSS	0 / 0.000	- / -	1 / -	3 / -	- / -	3 / -	- / -	4 / -	- / -	- / -	- / -	8 / -
Modification Item 7 of 13: Modern Manstation (MMS)	16 / 0.000	- / -	18 / -	48 / -	- / -	48 / -	- / -	- / -	- / -	- / -	- / -	82 / -
Modification Item 8 of 13: Enhanced Launcher Electronics System (ELES)	271 / 0.000	- / -	10 / -	- / -	- / -	- / -	8 / -	9 / -	19 / -	45 / -	58 / -	420 / -
Modification Item 9 of 13: SNAP/TROPO	0 / 0.000	- / -	14 / -	- / -	- / -	- / -	44 / -	25 / -	26 / -	7 / -	- / -	116 / -
Modification Item 10 of 13: PATRIOT Maintenance Trainer (PMT)	0 / 0.000	- / -	1 / -	- / -	- / -	- / -	1 / -	2 / -	- / -	- / -	1 / -	5 / -
Modification Item 11 of 13: PATRIOT Multi-Echelon Training (PMET)	0 / 0.000	- / -	2 / -	4 / -	- / -	4 / -	4 / -	4 / -	4 / -	4 / -	2 / -	24 / -
Modification Item 12 of 13: Reconfigurable Table Top Trainers (RT3)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	69 / -	- / -	70 / -	- / -	139 / -
Modification Item 13 of 13: Digital Sidelobe Cancellor (DSLCL)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / -	19 / -	58 / -	81 / -
Subtotal: Installation	6,720 / 1,667.567	23 / 4.478	151 / 1.100	203 / 1.200	- / -	203 / 1.200	274 / 2.232	262 / 1.600	156 / 1.200	247 / 1.400	7,291 / -	15,327 / 1,680.777
Total												
Total Cost (Procurement + Support + Installation)	2,732.695	326.438	183.838	241.883	-	241.883	207.692	321.879	354.907	197.147	Continuing	Continuing

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army										<b>Date:</b> February 2015																					
<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 1 of 13:</b> RAM Mods																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Raytheon															Manufacturer Location: Andover, MA																
Administrative Leadtime (in Months): 2															Production Leadtime (in Months): 6																
<b>Dates</b>		<b>FY 2014</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>					
Contract Dates		Dec 2013				Dec 2014				Dec 2015				Dec 2016				Dec 2017				Dec 2018				Dec 2019					
Delivery Dates		Jun 2014				Jun 2015				Jun 2016				Jun 2017				Jun 2018				Jun 2019				Jun 2020					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Depot																															
<b>Installation Cost</b>		<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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		6,338 / 142.244	- / 3.478	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	6,338 / 145.722																		
FY 2014		0 / 0.000	22 / -	64 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	86 / -																		
FY 2015		0 / 0.000	- / -	24 / -	66 / -	- / -	66 / -	- / -	- / -	- / -	- / -	- / -	90 / -																		
FY 2016		0 / 0.000	- / -	- / -	28 / -	- / -	28 / -	82 / -	- / -	- / -	- / -	- / -	110 / -																		
FY 2017		0 / 0.000	- / -	- / -	- / -	- / -	- / -	25 / -	75 / -	- / -	- / -	- / -	100 / -																		
FY 2018		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	26 / -	76 / -	- / -	- / -	102 / -																		
FY 2019		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / -	76 / -	- / -	102 / -																		
FY 2020		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / -	66 / -	91 / -																		
To Complete		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7,094 / -	7,094 / -																		
Total		6,338 / 142.244	22 / 3.478	88 / -	94 / -	- / -	94 / -	107 / -	101 / -	102 / -	101 / -	7,160 / -	14,113 / 145.722																		
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2014</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>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	6,284	27	27	22	22	22	20	24	24	24	18	28	28	27	27	25	25	25	25	26	26	25	25	26	26	25	25	24	24	7,137	14,113
Out	6,259	27	27	27	22	22	22	20	24	24	24	18	28	28	27	27	25	25	25	25	26	26	25	25	26	26	25	25	24	7,159	14,113

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army										<b>Date:</b> February 2015																						
<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 13:</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 2014</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>						
Contract Dates		Apr 2014				Apr 2015				Apr 2016				Apr 2017				Apr 2018				Apr 2019				Apr 2020						
Delivery Dates		Apr 2015				Apr 2016				Apr 2017				Apr 2018				Apr 2019				Apr 2020				Apr 2021						
<b>Installation Information</b>																																
<b>Method of Implementation:</b> Various																																
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</b>		<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020</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 / 200.191		- / 0.000		- / 0.000		- / 0.000		- / -		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		- / 0.000		10 / 200.191						
FY 2014		1 / 1.000		1 / 1.000		1 / 1.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 3.000						
FY 2015		0 / 0.000		- / -		- / -		1 / 1.000		- / -		1 / 1.000		- / -		- / -		- / -		- / -		- / -		- / -		1 / 1.000						
FY 2016		0 / 0.000		- / -		- / -		- / -		- / -		- / -		1 / 1.000		- / -		- / -		- / -		- / -		- / -		1 / 1.000						
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		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		12 / -		12 / -						
To Complete		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
Total		11 / 201.191		1 / 1.000		1 / 1.000		1 / 1.000		- / -		1 / 1.000		1 / 1.000		1 / 1.100		1 / 1.200		1 / 1.400		12 / -		- / -		30 / 208.891						
<b>Installation Schedule</b>																																
	<b>PYS</b>	<b>FY 2014</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>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	11	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	12	30
Out	10	-	1	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	13	30

## UNCLASSIFIED

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army										<b>Date:</b> February 2015																					
<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 3 of 13:</b> BCP/TCS/CSM																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Various															Manufacturer Location: Various																
Administrative Leadtime (in Months):															Production Leadtime (in Months):																
<b>Dates</b>		<b>FY 2014</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>					
Contract Dates																															
Delivery Dates																															
<b>Installation Information</b>																															
<b>Method of Implementation:</b> various																															
<b>Installation Cost</b>		<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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 / 1,324.132	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	79 / 1,324.132																		
FY 2014		0 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		79 / 1,324.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 1,324.132																		
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2014</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>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 2016 Army										<b>Date:</b> February 2015																					
<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 13:</b> Combined Crypto Modification Phase I (CCMPI)																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Raytheon															Manufacturer Location: Tewksbury, MA																
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 12																
<b>Dates</b>		<b>FY 2014</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>					
Contract Dates		Dec 2013				Dec 2014				Dec 2015																					
Delivery Dates		Dec 2014				Dec 2015				Dec 2016																					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Yes																															
<b>Installation Cost</b>		<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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 2014		0 / 0.000	- / -	16 / 0.100	17 / 0.100	- / -	17 / 0.100	- / -	- / -	- / -	- / -	- / -	33 / 0.200																		
FY 2015		0 / 0.000	- / -	- / -	20 / 0.100	- / -	20 / 0.100	19 / 0.397	- / -	- / -	- / -	- / -	39 / 0.497																		
FY 2016		0 / 0.000	- / -	- / -	- / -	- / -	- / -	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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		0 / 0.000	- / -	16 / 0.100	37 / 0.200	- / -	37 / 0.200	59 / 1.232	38 / 0.500	- / -	- / -	- / -	150 / 2.032																		
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2014</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>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	-	-	-	-	-	8	8	8	9	10	10	10	9	20	20	20	18	-	-	-	-	-	-	-	-	-	-	-	-	-	150
Out	-	-	-	-	-	-	-	8	8	8	9	10	10	10	9	20	20	20	18	-	-	-	-	-	-	-	-	-	-	-	150

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army			<b>Date:</b> February 2015		
<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 13:** 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		

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	May 2014	May 2015					
Delivery Dates	Dec 2015	Dec 2016					

**Installation Information**

**Method of Implementation:** Various

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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	5 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	5 / 0.000
FY 2014	0 / 0.000	- / -	- / -	16 / -	- / -	16 / -	46 / -	- / -	- / -	- / -	- / -	62 / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	4 / -	9 / -	- / -	- / -	- / -	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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 0.000	- / -	- / -	16 / -	- / -	16 / -	50 / -	9 / -	- / -	- / -	- / -	80 / -

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	-	-	-	-	-	16	16	15	15	4	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	80
Out	5	-	-	-	-	-	-	-	-	-	-	-	16	16	15	15	4	3	3	3	-	-	-	-	-	-	-	-	-	-	80

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army				<b>Date:</b> February 2015			
<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 13:** 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 2014</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>
Contract Dates	Mar 2014		Mar 2016				
Delivery Dates	Sep 2015		Sep 2017				

**Installation Information**

**Method of Implementation:** various

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 2014	0 / 0.000	- / -	1 / -	3 / -	- / -	3 / -	- / -	- / -	- / -	- / -	- / -	4 / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	4 / -	- / -	- / -	- / -	4 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	1 / -	3 / -	- / -	3 / -	- / -	4 / -	- / -	- / -	- / -	8 / -

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	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 2016 Army										<b>Date:</b> February 2015																					
<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 7 of 13:</b> Modern Manstation (MMS)																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Raytheon															Manufacturer Location: Andover, MA																
Administrative Leadtime (in Months): 6															Production Leadtime (in Months): 15																
<b>Dates</b>		<b>FY 2014</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>					
Contract Dates																															
Delivery Dates																															
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Various																															
<b>Installation Cost</b>		<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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>																	
Prior Years		16 / 0.000	- / 0.000	18 / 0.000	48 / 0.000	- / -	48 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	82 / 0.000																		
FY 2014		0 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		16 / 0.000	- / -	18 / -	48 / -	- / -	48 / -	- / -	- / -	- / -	- / -	- / -	82 / -																		
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2014</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>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	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 2016 Army										<b>Date:</b> February 2015																					
<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 13:</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 2014</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>					
Contract Dates		Dec 2013								Dec 2015				Dec 2016				Dec 2017				Dec 2018				Dec 2019					
Delivery Dates		Jun 2015								Jun 2017				Jun 2018				Jun 2019				Jun 2020				Jun 2021					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> contractor team																															
<b>Installation Cost</b>		<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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		271 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	271 / 0.000																		
FY 2014		0 / 0.000	- / -	10 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / -																		
FY 2015		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		0 / 0.000	- / -	- / -	- / -	- / -	- / -	8 / -	- / -	- / -	- / -	- / -	8 / -																		
FY 2017		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	9 / -	- / -	- / -	- / -	9 / -																		
FY 2018		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / -	- / -	- / -	19 / -																		
FY 2019		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / -	- / -	45 / -																		
FY 2020		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / -	25 / -																		
To Complete		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / -	33 / -																		
Total		271 / 0.000	- / -	10 / -	- / -	- / -	- / -	8 / -	9 / -	19 / -	45 / -	58 / -	420 / -																		
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2014</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>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	271	-	-	-	-	-	-	5	5	-	-	-	-	-	-	4	4	-	-	5	4	-	-	10	9	-	-	23	22	58	420
Out	271	-	-	-	-	-	-	5	5	-	-	-	-	-	-	4	4	-	-	5	4	-	-	10	9	-	-	23	22	58	420

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army										<b>Date:</b> February 2015																						
<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 13:</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 2014</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>												
Contract Dates		Oct 2013									Oct 2016			Oct 2017			Oct 2018			Oct 2019												
Delivery Dates		Jun 2014									Jun 2017			Jun 2018			Jun 2019			Jun 2020												
<b>Installation Information</b>																																
<b>Method of Implementation:</b> Depot, PM, contractor team																																
<b>Installation Cost</b>		<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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 2014		0 / 0.000	- / -	14 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / -																			
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 / -																			
To Complete		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total		0 / 0.000	- / -	14 / -	- / -	- / -	- / -	44 / -	25 / -	26 / -	7 / -	- / -	116 / -																			
<b>Installation Schedule</b>																																
	<b>PYS</b>	<b>FY 2014</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>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	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-	25	-	-	-	26	-	-	-	-	7	-	-	116
Out	-	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-	25	-	-	-	26	-	-	-	7	-	-	116

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army			<b>Date:</b> February 2015		
<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 10 of 13:** PATRIOT Maintenance Trainer (PMT)

**Manufacturer Information**

Manufacturer Name: Raytheon			Manufacturer Location: Tewksbury, MA		
Administrative Leadtime (in Months): 4			Production Leadtime (in Months): 4		

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Feb 2015		Feb 2017	Feb 2018		
Delivery Dates		Jun 2015		Jun 2017	Jun 2018		

**Installation Information**

**Method of Implementation:** PM office, contractor team

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	1 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	1 / -	- / -	- / -	- / -	- / -	1 / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	- / -	- / -	- / -	2 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -	1 / -
Total	0 / 0.000	- / -	1 / -	- / -	- / -	- / -	1 / -	2 / -	- / -	- / -	1 / -	5 / -

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	2	-	-	-	-	-	-	-	-	-	1	5
Out	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	1	5

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army										<b>Date:</b> February 2015																					
<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 13:</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 2014</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>					
Contract Dates						Feb 2015				Feb 2016				Feb 2017				Feb 2018				Feb 2019				Feb 2020					
Delivery Dates						Jun 2015				Jun 2016				Jun 2017				Jun 2018				Jun 2019				Jun 2020					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> PM team, contractor team																															
<b>Installation Cost</b>		<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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 2014		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		0 / 0.000	- / -	2 / -	2 / -	- / -	2 / -	- / -	- / -	- / -	- / -	- / -	4 / -																		
FY 2016		0 / 0.000	- / -	- / -	2 / -	- / -	2 / -	2 / -	- / -	- / -	- / -	- / -	4 / -																		
FY 2017		0 / 0.000	- / -	- / -	- / -	- / -	- / -	2 / -	2 / -	- / -	- / -	- / -	4 / -																		
FY 2018		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	2 / -	- / -	- / -	4 / -																		
FY 2019		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	2 / -	- / -	4 / -																		
FY 2020		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	2 / -	4 / -																		
To Complete		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		0 / 0.000	- / -	2 / -	4 / -	- / -	4 / -	4 / -	4 / -	4 / -	4 / -	2 / -	24 / -																		
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2014</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>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	-	-	-	-	-	-	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	24
Out	-	-	-	-	-	-	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	24

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army			<b>Date:</b> February 2015		
<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 12 of 13:** Reconfigurable Table Top Trainers (RT3)

**Manufacturer Information**

Manufacturer Name: Raytheon			Manufacturer Location: Tewksbury, MA		
Administrative Leadtime (in Months): 3			Production Leadtime (in Months): 9		

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates				Dec 2016		Dec 2018	
Delivery Dates				Oct 2017		Oct 2019	

**Installation Information**

**Method of Implementation:** PM office and contractor team

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	69 / -	- / -	- / -	- / -	69 / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / -	- / -	70 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	69 / -	- / -	70 / -	- / -	139 / -

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	17	17	17	-	-	-	-	18	18	17	17	-	139	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	17	17	17	-	-	-	-	18	18	17	17	-	139	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army										<b>Date:</b> February 2015																					
<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 13 of 13:</b> Digital Sidelobe Cancellor (DSLCL)																															
<b>Manufacturer Information</b>																															
Manufacturer Name: TBD															Manufacturer Location: TBD																
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 22																
<b>Dates</b>		<b>FY 2014</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>					
Contract Dates														Dec 2016				Dec 2017				Dec 2018				Dec 2019					
Delivery Dates														Oct 2018				Oct 2019				Oct 2020				Oct 2021					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Various																															
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</b>		<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020</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 2014		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2015		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2016		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / -		11 / -		- / -		15 / -		-					
FY 2018		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		8 / -		24 / -		32 / -		-					
FY 2019		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		23 / -		23 / -		-					
FY 2020		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		11 / -		11 / -		-					
To Complete		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		-					
Total		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / -		19 / -		58 / -		81 / -		-					
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2014</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>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	3	8	8	8	8	34	81
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	3	8	58	81

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
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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> CA6700 / ATACMS MODS
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements: 0203802A				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	30.119	-	30.119	67.544	63.456	17.032	-	-	178.151
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	-	-	-	30.119	-	30.119	67.544	63.456	17.032	-	-	178.151
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	-	-	<b>30.119</b>	-	<b>30.119</b>	<b>67.544</b>	<b>63.456</b>	<b>17.032</b>	-	-	<b>178.151</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> )	-	-	-	3,011.900	-	3,011.900	-	-	-	-	-	135.270

**Description:**

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

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

Block (Blk) 1 missiles currently have warheads (WHs) that are non-compliant with the 2008 Department of Defense (DoD) policy on cluster munitions (CM). The modification effort 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 replace electronics and propellants. The Stockpile Reliability Program (SRP) will supply additional data to support extending the service life. This effort effectively brings the expired inventory back into service, while meeting the DoD CM Policy, to engage imprecisely located/area targets up to 300 kilometers (km).

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

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	30.119	-	30.119	67.544	63.456	17.032	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	-	<b>30.119</b>	-	<b>30.119</b>	<b>67.544</b>	<b>63.456</b>	<b>17.032</b>	-



**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army						<b>Date:</b> February 2015		
<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>			<b>Other Related Program Elements:</b> 0203802A		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
CA6700 / Army Tactical Missile System (ATACMS) Modifications (Unclassified)	P-3a		- / -	- / -	- / -	- / 30.119	- / -	- / 30.119
<b>Total Gross/Weapon System Cost</b>			- / -	- / -	- / -	- / 30.119	- / -	- / 30.119
<b>Exhibits Schedule</b>			<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
<b>Title*</b>	<b>Exhibits</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>
CA6700 / Army Tactical Missile System (ATACMS) Modifications (Unclassified)	P-3a		- / 67.544	- / 63.456	- / 17.032	- / -	- / -	- / 178.151
<b>Total Gross/Weapon System Cost</b>			- / 67.544	- / 63.456	- / 17.032	- / -	- / -	- / 178.151
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.								
Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.								

**Justification:**

FY16 Base procurement dollars in the amount of \$30.119 million support funding to stand up production capability and modify 10 expired assets and reset their contractual service life.

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

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<b>Exhibit P-3a, Individual Modification: PB 2016 Army</b>		<b>Date:</b> February 2015
<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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	30.119	-	30.119	67.544	63.456	17.032	-	-	178.151
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	-	30.119	-	30.119	67.544	63.456	17.032	-	-	178.151
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	30.119	-	30.119	67.544	63.456	17.032	-	-	178.151
(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)	-	-	-	3,011.900	-	3,011.900	-	-	-	-	-	135.270

**Description:**

The ATACMS weapon system modernization program implements modifications to the weapon system. Required modifications are identified through various means, including the following: validated requirements documents such as Operational Needs Statement; material deficiencies identified in the field; obsolescence issues; emerging technologies; and software improvements.

<b>Secondary Distribution</b>		<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	30.119	-	30.119	67.544	63.456	17.032	-
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	-	<b>30.119</b>	-	<b>30.119</b>	<b>67.544</b>	<b>63.456</b>	<b>17.032</b>	-

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army										<b>Date:</b> February 2015			
<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 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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>													
<b>Modification Item 1 of 1:</b> CM Compliant Warhead													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	10 / 29.272	- / -	10 / 29.272	70 / 61.503	60 / 58.175	5 / 16.701	- / -	- / -	145 / 165.651	
<b>Subtotal: Recurring</b>	- / -	- / -	- / -	- / 29.272	- / -	- / 29.272	- / 61.503	- / 58.175	- / 16.701	- / -	- / -	- / 165.651	
<b>Subtotal: CM Compliant Warhead</b>	- / -	- / -	- / -	10 / 29.272	- / -	10 / 29.272	70 / 61.503	60 / 58.175	5 / 16.701	- / -	- / -	145 / 165.651	
<b>Subtotal: Procurement, All Modification Items</b>	- / -	- / -	- / -	10 / 29.272	- / -	10 / 29.272	70 / 61.503	60 / 58.175	5 / 16.701	- / -	- / -	145 / 165.651	
<b>Installation</b>													
<b>Modification Item 1 of 1:</b> CM Compliant Warhead	- / -	- / -	- / -	10 / 0.847	- / -	10 / 0.847	70 / 6.041	60 / 5.281	5 / 0.331	- / -	- / -	145 / 12.500	
<b>Subtotal: Installation</b>	- / -	- / -	- / -	10 / 0.847	- / -	10 / 0.847	70 / 6.041	60 / 5.281	5 / 0.331	- / -	- / -	145 / 12.500	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	-	-	30.119	-	30.119	67.544	63.456	17.032	-	-	178.151	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army				<b>Date:</b> February 2015			
<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 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Jun 2016	Mar 2017	Mar 2018	Oct 2018	
Delivery Dates			Jan 2018	Oct 2018	Oct 2019	Feb 2020	

**Installation Information**

**Method of Implementation:** TBD

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	10 / 0.847	- / -	10 / 0.847	- / -	- / -	- / -	- / -	- / -	10 / 0.847
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	70 / 6.041	- / -	- / -	- / -	- / -	70 / 6.041
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 5.281	- / -	- / -	- / -	60 / 5.281
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.331	- / -	- / -	5 / 0.331
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	10 / 0.847	- / -	10 / 0.847	70 / 6.041	60 / 5.281	5 / 0.331	- / -	- / -	145 / 12.500

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	-	-	-	-	-	-	-	-	10	-	-	70	-	-	-	60	-	-	5	-	-	-	-	-	-	-	-	145
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	4	17	17	19	17	15	15	15	15	5	145	

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
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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> C57701 / GMLRS MOD
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	18.221	-	18.221	56.395	68.534	0.269	144.003	-	287.422
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	-	-	-	18.221	-	18.221	56.395	68.534	0.269	144.003	-	287.422
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	-	-	<b>18.221</b>	-	<b>18.221</b>	<b>56.395</b>	<b>68.534</b>	<b>0.269</b>	<b>144.003</b>	-	<b>287.422</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> )	-	-	-	337.426	-	337.426	-	-	-	-	-	218.240

**Description:**

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

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

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

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

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	18.221	-	18.221	56.395	68.534	0.269	144.003
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

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

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**

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

**P-1 Line Item Number / Title:**

C57701 / GMLRS MOD

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

**Program Elements for Code B Items:**

**Other Related Program Elements:**

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Secondary Distribution	Total Obligation Authority	-	-	18.221	-	18.221	56.395	68.534	0.269	144.003

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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>			<b>Other Related Program Elements:</b>		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C57701 / Guided Multiple Launch Rocket System (GMLRS) Unitary Modification (Unclassified)	P-3a		- / -	- / -	- / -	- / 18.221	- / -	- / 18.221
<b>Total Gross/Weapon System Cost</b>			- / -	- / -	- / -	- / 18.221	- / -	- / 18.221
<b>Exhibits Schedule</b>			<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
<b>Title*</b>	<b>Exhibits</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>
C57701 / Guided Multiple Launch Rocket System (GMLRS) Unitary Modification (Unclassified)	P-3a		- / 56.395	- / 68.534	- / 0.269	- / 144.003	- / -	- / 287.422
<b>Total Gross/Weapon System Cost</b>			- / 56.395	- / 68.534	- / 0.269	- / 144.003	- / -	- / 287.422
*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 add due to rounding.								

**Justification:**

FY 2016 Base procurement dollars in the amount of \$18.221 million supports the conversion of 54 GMLRS Unitary rockets to AW rockets for the United States Army.

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 2016 Army		<b>Date:</b> February 2015
<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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	18.221	-	18.221	56.395	68.534	0.269	144.003	-	287.422
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	-	-	18.221	-	18.221	56.395	68.534	0.269	144.003	-	287.422
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	18.221	-	18.221	56.395	68.534	0.269	144.003	-	287.422
<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>	-	-	-	337.426	-	337.426	-	-	-	-	-	218.240

**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 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	18.221	-	18.221	56.395	68.534	0.269	144.003
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	-	<b>18.221</b>	-	<b>18.221</b>	<b>56.395</b>	<b>68.534</b>	<b>0.269</b>	<b>144.003</b>



**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army										<b>Date:</b> February 2015			
<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			
<b>Models of Systems Affected:</b> TBD				<b>Modification Type:</b> Unclassified				<b>Related RDT&amp;E PEs:</b>					
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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> GMLRS UNITARY/AW Conversion													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	54 / 4.086	- / -	54 / 4.086	690 / 49.575	744 / 57.417	- / -	1,608 / 123.710	- / -	3,096 / 234.788	
Government Test	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.290	- / 0.269	- / 3.423	- / -	- / 6.982	
Facilitization	- / -	- / -	- / -	- / 13.582	- / -	- / 13.582	- / -	- / -	- / -	- / -	- / -	- / 13.582	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 17.668	- / -	- / 17.668	- / 49.575	- / 60.707	- / 0.269	- / 127.133	- / -	- / 255.352	
<i>Subtotal: GMLRS UNITARY/AW Conversion</i>	- / -	- / -	- / -	54 / 17.668	- / -	54 / 17.668	690 / 49.575	744 / 60.707	- / 0.269	1,608 / 127.133	- / -	3,096 / 255.352	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	54 / 17.668	- / -	54 / 17.668	690 / 49.575	744 / 60.707	- / 0.269	1,608 / 127.133	- / -	3,096 / 255.352	
<b>Installation</b>													
<i>Modification Item 1 of 1:</i> GMLRS UNITARY/AW Conversion													
	- / -	- / -	- / -	54 / 0.553	- / -	54 / 0.553	690 / 6.820	744 / 7.827	- / -	1,608 / 16.870	- / -	3,096 / 32.070	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	54 / 0.553	- / -	54 / 0.553	690 / 6.820	744 / 7.827	- / -	1,608 / 16.870	- / -	3,096 / 32.070	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	-	-	18.221	-	18.221	56.395	68.534	0.269	144.003	-	287.422	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army				<b>Date:</b> February 2015			
<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 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
Delivery Dates			Jun 2017	Mar 2018	Mar 2019		Mar 2021

**Installation Information**

**Method of Implementation:** TBD

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	54 / 0.553	- / -	54 / 0.553	- / -	- / -	- / -	- / -	- / -	54 / 0.553
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	690 / 6.820	- / -	- / -	- / -	- / -	690 / 6.820
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	744 / 7.827	- / -	- / -	- / -	744 / 7.827
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,608 / 16.870	- / -	1,608 / 16.870
Total	- / -	- / -	- / -	54 / 0.553	- / -	54 / 0.553	690 / 6.820	744 / 7.827	- / -	1,608 / 16.870	- / -	3,096 / 32.070

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	-	-	-	-	-	-	-	54	-	-	-	-	690	-	-	-	744	-	-	-	-	-	-	-	-	-	-	1,488
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	27	-	230	230	230	-	248	248	248	-	-	-	-	-	1,488

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army										<b>Date:</b> February 2015		
<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>					<b>Other Related Program Elements:</b> 0203801A				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	164.388	37.252	1.355	2.216	-	2.216	-	-	-	-	-	205.211
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	164.388	37.252	1.355	2.216	-	2.216	-	-	-	-	-	205.211
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	<b>164.388</b>	<b>37.252</b>	<b>1.355</b>	<b>2.216</b>	<b>-</b>	<b>2.216</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>205.211</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>	-	-	-	-	-	-	-	-	-	-	-	-
<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>This effort funds the procurement and installation of the newly developed Proximity Fuze (Prox Fuze) into the Stinger Block I missile. The Prox Fuze will improve system effectiveness against the evolving UAS threat. Unmanned Aerial System Defense (UAS-D) is a requirement of the Operational Requirements Document (ORD) for the Stinger Guided Missile System and validated by the Deputy Chief of Staff, G-3/5/7, Current and Future Warfighting Capabilities Division (DAMO-CIC) in memo dated 28 May 2013.</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 incorporation of Stinger Prox Fuze with a 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 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>		
Army	Quantity	-	-	-	-	-	-	-	-	-		
	Total Obligation Authority	37.252	1.355	2.216	-	2.216	-	-	-	-		
<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>37.252</b>	<b>1.355</b>	<b>2.216</b>	<b>-</b>	<b>2.216</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army						<b>Date:</b> February 2015		
<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>			<b>Other Related Program Elements:</b> 0203801A		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C21300 / Stinger Proximity Fuze (TBD)	P-3a		- / 164.388	- / 37.252	- / 1.355	- / 2.216	- / -	- / 2.216
<b>Total Gross/Weapon System Cost</b>			<b>- / 164.388</b>	<b>- / 37.252</b>	<b>- / 1.355</b>	<b>- / 2.216</b>	<b>- / -</b>	<b>- / 2.216</b>
<b>Exhibits Schedule</b>			<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
<b>Title*</b>	<b>Exhibits</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>
C21300 / Stinger Proximity Fuze (TBD)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 205.211
<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 205.211</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 add due to rounding.								

**Justification:**

FY2016 Base Procurement dollars in the amount of \$2.216 million supports the integration of the Proximity Fuze into the Stinger Block I missiles and delivery to the final acceptance point.

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.

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army		<b>Date:</b> February 2015
<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 Proximity Fuze

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	164.388	37.252	1.355	2.216	-	2.216	-	-	-	-	-	205.211
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	164.388	37.252	1.355	2.216	-	2.216	-	-	-	-	-	205.211
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>164.388</b>	<b>37.252</b>	<b>1.355</b>	<b>2.216</b>	<b>-</b>	<b>2.216</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>205.211</b>

*(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 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.

This effort funds the procurement and installation of the newly developed Proximity Fuze (Prox Fuze) into the Stinger Block I missile. The Prox Fuze will improve system effectiveness against the evolving UAS threat. Unmanned Aerial System Defense (UAS-D) is a requirement of the Operational Requirements Document (ORD) for the Stinger Guided Missile System.

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 incorporation of Stinger Prox Fuze with a 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.

<b>Secondary Distribution</b>		<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	37.252	1.355	2.216	-	2.216	-	-	-	-
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>37.252</b>	<b>1.355</b>	<b>2.216</b>	<b>-</b>	<b>2.216</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10				P-1 Line Item Number / Title: C20000 / Stinger Mods				Modification Number / Title: C21300 / Stinger Proximity Fuze					
Models of Systems Affected: FIM-92E Stinger Block I Missile				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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: Stinger Proximity Fuze													
A Kits													
Recurring													
Hardware	0 / 164.388	850 / 30.342	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	850 / 194.730	
Engineering Services	- / -	- / 0.762	- / 0.252	- / 0.489	- / -	- / 0.489	- / -	- / -	- / -	- / -	- / -	- / 1.503	
Govt PM/Admin Support	- / -	- / 1.651	- / 0.390	- / 0.381	- / -	- / 0.381	- / -	- / -	- / -	- / -	- / -	- / 2.422	
Other Flyaway Support	- / -	- / 4.497	- / 0.399	- / 1.023	- / -	- / 1.023	- / -	- / -	- / -	- / -	- / -	- / 5.919	
Subtotal: Recurring	- / 164.388	- / 37.252	- / 1.041	- / 1.893	- / -	- / 1.893	- / -	- / -	- / -	- / -	- / -	- / 204.574	
Subtotal: Stinger Proximity Fuze	0 / 164.388	850 / 37.252	- / 1.041	- / 1.893	- / -	- / 1.893	- / -	- / -	- / -	- / -	- / -	850 / 204.574	
Subtotal: Procurement, All Modification Items	0 / 164.388	850 / 37.252	- / 1.041	- / 1.893	- / -	- / 1.893	- / -	- / -	- / -	- / -	- / -	850 / 204.574	
Installation													
Modification Item 1 of 1: Stinger Proximity Fuze	0 / 0.000	- / -	425 / 0.314	425 / 0.323	- / -	425 / 0.323	- / -	- / -	- / -	- / -	- / -	850 / 0.637	
Subtotal: Installation	0 / 0.000	- / -	425 / 0.314	425 / 0.323	- / -	425 / 0.323	- / -	- / -	- / -	- / -	- / -	850 / 0.637	
Total													
Total Cost (Procurement + Support + Installation)	164.388	37.252	1.355	2.216	-	2.216	-	-	-	-	-	205.211	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army										<b>Date:</b> February 2015																					
<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 Proximity Fuze																					
<b>Modification Item 1 of 1:</b> Stinger Proximity Fuze																															
<b>Manufacturer Information</b>																															
Manufacturer Name: McAlester Army Ammunition Plant												Manufacturer Location: McAlester, OK																			
Administrative Leadtime (in Months): 3												Production Leadtime (in Months): 21																			
<b>Dates</b>	<b>FY 2014</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>																								
Contract Dates	Jan 2014																														
Delivery Dates	Jun 2015																														
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Depot Upgrade																															
<b>Installation Cost</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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																			
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2015	0 / 0.000	- / -	425 / 0.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	425 / 0.314																			
FY 2016	0 / 0.000	- / -	- / -	425 / 0.323	- / -	425 / 0.323	- / -	- / -	- / -	- / -	- / -	425 / 0.323																			
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total	0 / 0.000	- / -	425 / 0.314	425 / 0.323	- / -	425 / 0.323	- / -	- / -	- / -	- / -	- / -	850 / 0.637																			
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2014</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>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	-	-	425	425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	850
Out	-	-	-	-	-	-	-	-	425	425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	850

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications						P-1 Line Item Number / Title: CE8710 / AVENGER MODS						
ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	50.723	-	5.611	6.171	-	6.171	37.579	63.312	28.606	-	-	192.002
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	50.723	-	5.611	6.171	-	6.171	37.579	63.312	28.606	-	-	192.002
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	50.723	-	5.611	6.171	-	6.171	37.579	63.312	28.606	-	-	192.002
(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> )	-	-	-	-	-	-	-	-	-	-	-	-
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 (IFPC2-I) which fully fields in FY30.  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 Forward Area Air Defense (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 FY30. 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 Voice Intercommunication 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 FY30. 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												



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015			
<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>			<b>Other Related Program Elements:</b>				
<p>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.</p> <p>Mode 5/Identificaion 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 identificaion capability, allowing Avenger to remain relevant and effective in Air Defense and Homeland Defense missions.</p> <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 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.611	3.042	-	3.042	34.346	20.679	7.270	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	3.129	-	3.129	3.233	42.633	21.336	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	-	<b>5.611</b>	<b>6.171</b>	-	<b>6.171</b>	<b>37.579</b>	<b>63.312</b>	<b>28.606</b>	-

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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>			<b>Other Related Program Elements:</b>		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
CE8710 / Avenger Modification (Operational)	P-3a		- / 50.723	- / -	- / 5.611	- / 6.171	- / -	- / 6.171
<b>Total Gross/Weapon System Cost</b>			<b>- / 50.723</b>	<b>- / -</b>	<b>- / 5.611</b>	<b>- / 6.171</b>	<b>- / -</b>	<b>- / 6.171</b>
<b>Exhibits Schedule</b>			<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
<b>Title*</b>	<b>Exhibits</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>
CE8710 / Avenger Modification (Operational)	P-3a		- / 37.579	- / 63.312	- / 28.606	- / -	- / -	- / 192.002
<b>Total Gross/Weapon System Cost</b>			<b>- / 37.579</b>	<b>- / 63.312</b>	<b>- / 28.606</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 192.002</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 add due to rounding.								

**Justification:**

FY16 Base procurement dollars in the amount of \$6.171 million supports the acquisition of 60 M3P Machine Guns and 99 Targeting Consoles.

The P-40 Secondary Distribution table shows the number of 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.

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2016 Army</b>		<b>Date:</b> February 2015
<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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	50.723	-	5.611	6.171	-	6.171	37.579	63.312	28.606	-	-	192.002
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	50.723	-	5.611	6.171	-	6.171	37.579	63.312	28.606	-	-	192.002
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	50.723	-	5.611	6.171	-	6.171	37.579	63.312	28.606	-	-	192.002
(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:**

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) 30 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 VIC intercom 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 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.611	3.042	-	3.042	34.346	20.679	7.270	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	3.129	-	3.129	3.233	42.633	21.336	-
<b>Total:</b> <b>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>-</b>	<b>5.611</b>	<b>6.171</b>	<b>-</b>	<b>6.171</b>	<b>37.579</b>	<b>63.312</b>	<b>28.606</b>	<b>-</b>

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Exhibit P-3a, Individual Modification: PB 2016 Army									Date: February 2015				
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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	- / -	- / -	66 / 3.031	60 / 2.798	- / -	60 / 2.798	- / -	- / -	- / -	- / -	- / -	126 / 5.829	
Engineering Services	- / -	- / -	- / 0.031	- / 0.031	- / -	- / 0.031	- / -	- / -	- / -	- / -	- / -	- / 0.062	
Gov't SEPM	- / -	- / -	- / 0.053	- / 0.049	- / -	- / 0.049	- / -	- / -	- / -	- / -	- / -	- / 0.102	
Interim Contractor Support	- / -	- / -	- / 0.128	- / 0.108	- / -	- / 0.108	- / -	- / -	- / -	- / -	- / -	- / 0.236	
Spares/Repairs	- / -	- / -	- / 0.123	- / 0.064	- / -	- / 0.064	- / -	- / -	- / -	- / -	- / -	- / 0.187	
Subtotal: Recurring	- / -	- / -	- / 3.366	- / 3.050	- / -	- / 3.050	- / -	- / -	- / -	- / -	- / -	- / 6.416	
Subtotal: M3P Machine Gun	- / -	- / -	66 / 3.366	60 / 3.050	- / -	60 / 3.050	- / -	- / -	- / -	- / -	- / -	126 / 6.416	
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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	165 / 6.452	- / -	- / -	- / -	165 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.612	- / -	- / -	- / 0.612	
Engineering Services	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.156	- / 0.030	- / -	- / -	- / 0.186	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.683	- / 0.958	- / -	- / -	- / 8.641	

**UNCLASSIFIED**

Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015					
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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													
- / - - / - - / - - / - - / - - / - / - 165 / 7.683 - / 0.958 - / - - / - 165 / 8.641													
Modification Item 4 of 6: Mode 5/Identification Friend or Foe													
A Kits													
Recurring													
Kit Quantity - / - - / - - / - - / - - / - / - 140 / 27.718 155 / 27.996 98 / 17.396 - / - - / - 393 / 73.110													
Engineering Services - / - - / - - / - - / - - / - / - - / 0.265 - / 0.812 - / 0.194 - / - - / - - / 1.271													
Program Management Support - / - - / - - / - - / - - / - / - - / 0.064 - / 0.093 - / 0.082 - / - - / - - / 0.239													
Transportation - / - - / - - / - - / - - / - / - - / 0.220 - / 0.245 - / 0.151 - / - - / - - / 0.616													
Interim Contractor Support - / - - / - - / - - / - - / - / - - / 1.569 - / 1.974 - / 1.336 - / - - / - - / 4.879													
Spares/Repairs - / - - / - - / - - / - - / - / - - / 1.233 - / 1.271 - / 0.898 - / - - / - - / 3.402													
Subtotal: Recurring - / - - / - - / - - / - / - - / - - / 31.069 - / 32.391 - / 20.057 - / - - / - - / 83.517													
Subtotal: Mode 5/Identification Friend or Foe - / - - / - - / - / - - / - - / - / - 140 / 31.069 155 / 32.391 98 / 20.057 - / - - / - 393 / 83.517													
Modification Item 5 of 6: Targeting Console													
A Kits													
Recurring													
Kit Quantity - / - - / - 66 / 1.575 99 / 2.204 - / - 99 / 2.204 - / - - / - 165 / 3.779													
Engineering Services - / - - / - - / 0.237 - / 0.204 - / - - / 0.204 - / - - / - - / - 0.441													
SE/PM - / - - / - - / 0.144 - / 0.220 - / - - / 0.220 - / - - / - - / - 0.364													
Spares/Repairs - / - - / - - / 0.072 - / 0.110 - / - - / 0.110 - / - - / - - / - 0.182													
NET - / - - / - - / 0.009 - / 0.013 - / - - / 0.013 - / - - / - - / - 0.022													
Common Requirements - / - - / - - / 0.208 - / 0.317 - / - - / 0.317 - / - - / - - / - 0.525													
Subtotal: Recurring - / - - / - - / 2.245 - / 3.068 - / - - / 3.068 - / - - / - - / - 5.313													
Subtotal: Targeting Console - / - - / - - / 2.245 99 / 3.068 - / - 99 / 3.068 - / - - / - - / - 5.313													
Modification Item 6 of 6: Environmental Control Unit/ Prime Power Unit													
A Kits													
Recurring													
Kit Quantity - / - - / - - / - - / - / - 29 / 3.341 53 / 6.228 17 / 2.038 - / - - / - 99 / 11.607													
Spares/Repairs - / - - / - - / - - / - / - - / 0.215 - / 0.734 - / 0.077 - / - - / - - / 1.026													
Transportation - / - - / - - / - - / - / - - / 0.215 - / 0.734 - / 0.077 - / - - / - - / 1.026													
NET - / - - / - - / - - / - / - - / 0.646 - / 2.201 - / 0.231 - / - - / - - / 3.078													
Engineering Services - / - - / - - / - - / - / - - / 0.204 - / 0.381 - / 0.125 - / - - / - - / 0.710													

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Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015				
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.257	- / 0.509	- / 0.313	- / -	- / -	- / 1.079
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.878	- / 10.787	- / 2.861	- / -	- / -	- / 18.526
Subtotal: Environmental Control Unit/Prime Power Unit	- / -	- / -	- / -	- / -	- / -	- / -	29 / 4.878	53 / 10.787	17 / 2.861	- / -	- / -	99 / 18.526
Subtotal: Procurement, All Modification Items	- / -	- / -	132 / 5.611	159 / 6.118	- / -	159 / 6.118	169 / 35.947	766 / 61.257	115 / 25.127	- / -	- / -	1,341 / 134.060
Installation												
Modification Item 1 of 6: M3P Machine Gun	0 / 0.000	- / -	- / -	126 / 0.037	- / -	126 / 0.037	- / -	- / -	- / -	- / -	- / -	126 / 0.037
Modification Item 2 of 6: Voice Intercommunication System	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	393 / 1.788	- / -	- / -	393 / 1.788
Modification Item 3 of 6: Avenger Fire Control Computer	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	165 / 0.540	- / -	- / -	165 / 0.540
Modification Item 4 of 6: Mode 5/Identification Friend or Foe	0 / 0.000	- / -	- / -	- / -	- / -	- / -	140 / 1.261	155 / 1.363	98 / 0.925	- / -	- / -	393 / 3.549
Modification Item 5 of 6: Targeting Console	0 / 0.000	- / -	- / -	165 / 0.016	- / -	165 / 0.016	- / -	- / -	- / -	- / -	- / -	165 / 0.016
Modification Item 6 of 6: Environmental Control Unit/ Prime Power Unit	0 / 0.000	- / -	- / -	- / -	- / -	- / -	29 / 0.371	53 / 0.692	17 / 0.226	- / -	- / -	99 / 1.289
Subtotal: Installation	0 / 0.000	- / -	- / -	291 / 0.053	- / -	291 / 0.053	169 / 1.632	208 / 2.055	673 / 3.479	- / -	- / -	1,341 / 7.219
Total												
Total Cost (Procurement + Support + Installation)	50.723	-	5.611	6.171	-	6.171	37.579	63.312	28.606	-	-	192.002

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army			<b>Date:</b> February 2015		
<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): 10

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Mar 2015	Dec 2015	Nov 2016			
Delivery Dates		Jan 2016	May 2016	Apr 2017			

**Installation Information**

**Method of Implementation:** Replacement in Field

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	66 / 0.019	- / -	66 / 0.019	- / -	- / -	- / -	- / -	- / -	66 / 0.019
FY 2016	0 / 0.000	- / -	- / -	60 / 0.018	- / -	60 / 0.018	- / -	- / -	- / -	- / -	- / -	60 / 0.018
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	126 / 0.037	- / -	126 / 0.037	- / -	- / -	- / -	- / -	- / -	126 / 0.037

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	-	-	-	-	-	-	-	33	33	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126
Out	-	-	-	-	-	-	-	-	-	-	33	33	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army			<b>Date:</b> February 2015		
<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 2 of 6:** Voice Intercommunication System

**Manufacturer Information**

Manufacturer Name: CECOM Managed Item				Manufacturer Location: Tobyhanna, PA			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 9			

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates					Jan 2018		
Delivery Dates					Oct 2019		

**Installation Information**

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

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	393 / 1.788	- / -	- / -	393 / 1.788
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	393 / 1.788	- / -	- / -	393 / 1.788

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	106	106	106	-	-	-	-	-	393	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	106	106	106	-	-	-	-	-	393	



**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army										<b>Date:</b> February 2015																					
<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 3 of 6:</b> Avenger Fire Control Computer																															
<b>Manufacturer Information</b>																															
Manufacturer Name: Boeing															Manufacturer Location: Everett, Washington																
Administrative Leadtime (in Months): 1															Production Leadtime (in Months): 9																
<b>Dates</b>		<b>FY 2014</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>					
Contract Dates																		Apr 2018													
Delivery Dates																		Jan 2019													
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Integration and Installation in the Field																															
<b>Installation Cost</b>		<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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																		
FY 2014		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	165 / 0.540	- / -	- / -	165 / 0.540																		
FY 2019		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	165 / 0.540	- / -	- / -	165 / 0.540																		
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2014</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>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	90	-	-	-	-	-	-	165
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	90	-	-	-	-	-	-	165

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army						<b>Date:</b> February 2015					
<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 4 of 6:** Mode 5/Identification Friend or Foe

**Manufacturer Information**

Manufacturer Name: Boeing						Manufacturer Location: Everett, Washington					
Administrative Leadtime (in Months): 1						Production Leadtime (in Months): 5					

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates				Jan 2017	Nov 2017	Nov 2018	
Delivery Dates				May 2017	Mar 2018	Mar 2019	

**Installation Information**

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

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	140 / 1.261	- / -	- / -	- / -	- / -	140 / 1.261
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	155 / 1.363	- / -	- / -	- / -	155 / 1.363
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	98 / 0.925	- / -	- / -	98 / 0.925
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	140 / 1.261	155 / 1.363	98 / 0.925	- / -	- / -	393 / 3.549

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	40	40	50	40	40	40	40	40	40	33	-	-	-	-	-	393
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	40	40	50	40	40	40	40	40	40	33	-	-	-	-	-	393

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army			<b>Date:</b> February 2015		
<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): 6		

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Mar 2015	Dec 2015				
Delivery Dates		Oct 2015	Jun 2016				

**Installation Information**

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

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	66 / 0.006	- / -	66 / 0.006	- / -	- / -	- / -	- / -	- / -	66 / 0.006
FY 2016	0 / 0.000	- / -	- / -	99 / 0.010	- / -	99 / 0.010	- / -	- / -	- / -	- / -	- / -	99 / 0.010
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	165 / 0.016	- / -	165 / 0.016	- / -	- / -	- / -	- / -	- / -	165 / 0.016

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	-	-	-	-	-	-	33	33	33	33	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	165
Out	-	-	-	-	-	-	-	-	-	33	33	33	33	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	165

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army										<b>Date:</b> February 2015																					
<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): 9																		
<b>Dates</b>		<b>FY 2014</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>					
Contract Dates														Mar 2017				Dec 2017				Oct 2018									
Delivery Dates														Dec 2017				Sep 2018				Sep 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 2014</b>		<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</b>		<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020</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							
FY 2014		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2015		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2016		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2017		0 / 0.000		- / -		- / -		- / -		- / -		- / -		29 / 0.371		- / -		- / -		- / -		- / -		29 / 0.371							
FY 2018		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		53 / 0.692		- / -		- / -		- / -		53 / 0.692							
FY 2019		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		17 / 0.226		- / -		- / -		17 / 0.226							
FY 2020		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		0 / 0.000		- / -		- / -		- / -		- / -		- / -		29 / 0.371		53 / 0.692		17 / 0.226		- / -		- / -		99 / 1.289							
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2014</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>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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-	53	-	-	-	17	-	-	-	-	-	99
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-	53	-	-	-	17	-	-	-	-	-	99

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
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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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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,729.699	20.000	19.676	19.576	-	19.576	0.983	-	-	-	-	1,789.934
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	1,729.699	20.000	19.676	19.576	-	19.576	0.983	-	-	-	-	1,789.934
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	1,729.699	20.000	19.676	19.576	-	19.576	0.983	-	-	-	-	1,789.934
(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> )	-	-	-	-	-	-	-	-	-	-	-	-

**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 in Operation Enduring Freedom (OEF).

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	5.902	-	5.902	0.983	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	20.000	19.676	13.160	-	13.160	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.514	-	0.514	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015			
<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>			<b>Other Related Program Elements:</b>				
<b>Secondary Distribution</b>		<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Secondary Distribution	Total Obligation Authority	20.000	19.676	19.576	-	19.576	0.983	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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>			<b>Other Related Program Elements:</b>		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C61700 / NA (NA)	P-3a		- / 1,729.699	- / 20.000	- / 19.676	- / 19.576	- / -	- / 19.576
<b>Total Gross/Weapon System Cost</b>			<b>- / 1,729.699</b>	<b>- / 20.000</b>	<b>- / 19.676</b>	<b>- / 19.576</b>	<b>- / -</b>	<b>- / 19.576</b>
<b>Exhibits Schedule</b>			<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
<b>Title*</b>	<b>Exhibits</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>
C61700 / NA (NA)	P-3a		- / 0.983	- / -	- / -	- / -	- / -	- / 1,789.934
<b>Total Gross/Weapon System Cost</b>			<b>- / 0.983</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 1,789.934</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 add due to rounding.								

**Justification:**

FY2016 Base Procurement dollars in the amount of \$19.576 million supports 306 ITAS Image Enhancement modification kits as well as Government and contractor program management support, fielding, and installation of these systems.

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:</b> PB 2016 Army								<b>Date:</b> February 2015			
<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>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,729.699	20.000	19.676	19.576	-	19.576	0.983	-	-	-	-	1,789.934
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	1,729.699	20.000	19.676	19.576	-	19.576	0.983	-	-	-	-	1,789.934
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>1,729.699</b>	<b>20.000</b>	<b>19.676</b>	<b>19.576</b>	<b>-</b>	<b>19.576</b>	<b>0.983</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,789.934</b>

*(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:**

Modification Description / Justification:

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 in Operation Enduring Freedom (OEF).

FY2016 Base Procurement dollars in the amount of \$19.576 million supports 306 ITAS Image Enhancement modification kits as well as Government and contractor program management support, fielding, and installation of these systems.

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 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	5.902	-	5.902	0.983	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	20.000	19.676	13.160	-	13.160	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-



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Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: C61700 / ITAS/TOW Mods				Modification Number / Title: C61700 / NA			
Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
	Total Obligation Authority	-	-	0.514	-	0.514	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	20.000	19.676	19.576	-	19.576	0.983	-	-	-

**UNCLASSIFIED**

Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10				P-1 Line Item Number / Title: C61700 / ITAS/TOW Mods				Modification Number / Title: C61700 / NA					
Models of Systems Affected: NA				Modification Type: NA				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)													
A Kits													
Recurring													
Kit Quantity	1,552 / 1.619	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,552 / 1.619	
Equipment	0 / 1,361.319	- / 17.718	- / 15.394	- / 15.394	- / -	- / 15.394	- / -	- / -	- / -	- / -	- / -	- / 1,409.825	
Fielding	0 / 79.257	- / -	- / 1.622	- / 4.005	- / -	- / 4.005	- / 0.806	- / -	- / -	- / -	- / -	- / 85.690	
Project Management	0 / 115.570	- / 2.282	- / 2.660	- / 0.177	- / -	- / 0.177	- / 0.177	- / -	- / -	- / -	- / -	- / 120.866	
Data	0 / 3.097	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.097	
Subtotal: Recurring	- / 1,560.862	- / 20.000	- / 19.676	- / 19.576	- / -	- / 19.576	- / 0.983	- / -	- / -	- / -	- / -	- / 1,621.097	
Non-Recurring													
Training Equipment	0 / 86.712	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 86.712	
Production Line Restart	0 / 5.993	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.993	
Initial Spares	0 / 76.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 76.132	
Subtotal: Non-Recurring	- / 168.837	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 168.837	
Subtotal: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)	1,552 / 1,729.699	- / 20.000	- / 19.676	- / 19.576	- / -	- / 19.576	- / 0.983	- / -	- / -	- / -	- / -	1,552 / 1,789.934	
Subtotal: Procurement, All Modification Items	1,552 / 1,729.699	- / 20.000	- / 19.676	- / 19.576	- / -	- / 19.576	- / 0.983	- / -	- / -	- / -	- / -	1,552 / 1,789.934	
Installation													
Modification Item 1 of 1: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)													
Subtotal: Installation	1,552 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,552 / -	
Total													
Total Cost (Procurement + Support + Installation)	1,729.699	20.000	19.676	19.576	-	19.576	0.983	-	-	-	-	1,789.934	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army			<b>Date:</b> February 2015		
<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 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Dec 2014	Dec 2015				
Delivery Dates		Feb 2017	Sep 2017				

**Installation Information**

**Method of Implementation:** Organic

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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	1,552 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / -	- / -	- / -	- / 0.000	1,552 / 0.000
FY 2014	0 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,552 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,552 / -

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
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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> C67500 / MLRS Mods
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	55.231	11.571	10.380	35.970	-	35.970	37.251	37.785	38.353	57.676	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	55.231	11.571	10.380	35.970	-	35.970	37.251	37.785	38.353	57.676	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	55.231	11.571	10.380	35.970	-	35.970	37.251	37.785	38.353	57.676	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> )	-	-	-	2,569.286	-	2,569.286	-	-	-	-	Continuing	Continuing

**Description:**

The Multiple Launch Rocket System (MLRS) is a full spectrum, combat proven, all weather, 24/7, tracked weapon system. This precision strike weapon system is organic/assigned to Fires Brigades supporting Brigade Combat Teams (FABs). 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.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.287	8.380	35.970	-	35.970	37.251	37.785	38.353	39.285
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.284	2.000	-	-	-	-	-	-	18.391
<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>11.571</b>	<b>10.380</b>	<b>35.970</b>	<b>-</b>	<b>35.970</b>	<b>37.251</b>	<b>37.785</b>	<b>38.353</b>	<b>57.676</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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>			<b>Other Related Program Elements:</b>		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
C67500 / Multiple Launch Rocket System (MLRS) Modifications (.)	P-3a		- / 55.231	- / 11.571	- / 10.380	- / 35.970	- / -	- / 35.970
<b>Total Gross/Weapon System Cost</b>			<b>- / 55.231</b>	<b>- / 11.571</b>	<b>- / 10.380</b>	<b>- / 35.970</b>	<b>- / -</b>	<b>- / 35.970</b>
<b>Exhibits Schedule</b>			<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
<b>Title*</b>	<b>Exhibits</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>
C67500 / Multiple Launch Rocket System (MLRS) Modifications (.)	P-3a		- / 37.251	- / 37.785	- / 38.353	- / 57.676	Continuing	Continuing
<b>Total Gross/Weapon System Cost</b>			<b>- / 37.251</b>	<b>- / 37.785</b>	<b>- / 38.353</b>	<b>- / 57.676</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 add due to rounding.								

**Justification:**

FY16 Base procurement dollars in the amount of \$35.97 million facilitates the Improved Armored Cab (IAC) and the Fire Control System-Update (FCS-U) production lines, and Obsolescence Mitigation/ Engineering Change Proposal integration to include measures for other hardware and software required in support of launcher upgrades.

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:</b> PB 2016 Army		<b>Date:</b> February 2015
<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

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	55.231	11.571	10.380	35.970	-	35.970	37.251	37.785	38.353	57.676	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	55.231	11.571	10.380	35.970	-	35.970	37.251	37.785	38.353	57.676	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	55.231	11.571	10.380	35.970	-	35.970	37.251	37.785	38.353	57.676	Continuing	Continuing
(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)	-	-	-	2,569.286	-	2,569.286	-	-	-	-	Continuing	Continuing

**Description:**  
Modifications of the MLRS System

<b>Secondary Distribution</b>		<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.287	8.380	35.970	-	35.970	37.251	37.785	38.353	39.285
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.284	2.000	-	-	-	-	-	-	18.391
<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>11.571</b>	<b>10.380</b>	<b>35.970</b>	<b>-</b>	<b>35.970</b>	<b>37.251</b>	<b>37.785</b>	<b>38.353</b>	<b>57.676</b>

**UNCLASSIFIED**

Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015					
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 4: Obsolescence Mitigations/ ECP Reliability Intg													
A Kits													
Recurring													
Equipment	0 / 32.381	- / 3.711	- / 1.400	- / 0.756	- / -	- / 0.756	- / 1.271	- / 1.231	- / 1.058	- / 1.062	Continuing	Continuing	
Subtotal: Recurring	- / 32.381	- / 3.711	- / 1.400	- / 0.756	- / -	- / 0.756	- / 1.271	- / 1.231	- / 1.058	- / 1.062	Continuing	Continuing	
Subtotal: Obsolescence Mitigations/ECP Reliability Intg	0 / 32.381	- / 3.711	- / 1.400	- / 0.756	- / -	- / 0.756	- / 1.271	- / 1.231	- / 1.058	- / 1.062	Continuing	Continuing	
Modification Item 2 of 4: Enhanced Command and Control (C2)													
A Kits													
Recurring													
Equipment	162 / 19.394	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	162 / 19.394	
Subtotal: Recurring	- / 19.394	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.394	
Subtotal: Enhanced Command and Control (C2)	162 / 19.394	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	162 / 19.394	
Modification Item 3 of 4: Improved Armored Cab (IAC)													
A Kits													
Recurring													
Equipment	- / -	16 / 7.716	17 / 8.542	15 / 21.904	- / -	15 / 21.904	13 / 17.490	11 / 15.887	10 / 15.053	24 / 32.715	Continuing	Continuing	
Subtotal: Recurring	- / -	- / 7.716	- / 8.542	- / 21.904	- / -	- / 21.904	- / 17.490	- / 15.887	- / 15.053	- / 32.715	Continuing	Continuing	
Subtotal: Improved Armored Cab (IAC)	- / -	16 / 7.716	17 / 8.542	15 / 21.904	- / -	15 / 21.904	13 / 17.490	11 / 15.887	10 / 15.053	24 / 32.715	Continuing	Continuing	
Modification Item 4 of 4: Fire Control System (FCS) Upgrade													
A Kits													
Recurring													
Equipment	- / -	- / -	- / -	14 / 12.772	- / -	14 / 12.772	12 / 14.066	12 / 16.761	12 / 18.803	22 / 20.669	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / 12.772	- / -	- / 12.772	- / 14.066	- / 16.761	- / 18.803	- / 20.669	Continuing	Continuing	
Subtotal: Fire Control System (FCS) Upgrade	- / -	- / -	- / -	14 / 12.772	- / -	14 / 12.772	12 / 14.066	12 / 16.761	12 / 18.803	22 / 20.669	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	162 / 51.775	16 / 11.427	17 / 9.942	29 / 35.432	- / -	29 / 35.432	25 / 32.827	23 / 33.879	22 / 34.914	46 / 54.446	Continuing	Continuing	
Installation													
Modification Item 2 of 4: Enhanced Command and Control (C2)	216 / 3.456	9 / 0.144	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	225 / 3.600	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army								<b>Date:</b> February 2015				
<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 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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>Modification Item 3 of 4:</b> Improved Armored Cab (IAC)	0 / 0.000	- / -	16 / 0.438	17 / 0.538	- / -	17 / 0.538	15 / 3.927	13 / 3.472	11 / 2.996	10 / 2.778	- / -	82 / 14.149
<b>Modification Item 4 of 4:</b> Fire Control System (FCS) Upgrade	0 / 0.000	- / -	- / -	- / -	- / -	- / -	14 / 0.497	12 / 0.434	12 / 0.443	12 / 0.452	- / -	50 / 1.826
<i>Subtotal: Installation</i>	<i>216 / 3.456</i>	<i>9 / 0.144</i>	<i>16 / 0.438</i>	<i>17 / 0.538</i>	<i>- / -</i>	<i>17 / 0.538</i>	<i>29 / 4.424</i>	<i>25 / 3.906</i>	<i>23 / 3.439</i>	<i>22 / 3.230</i>	<i>- / -</i>	<i>357 / 19.575</i>
<b>Total</b>												
<b>Total Cost (Procurement + Support + Installation)</b>	<b>55.231</b>	<b>11.571</b>	<b>10.380</b>	<b>35.970</b>	<b>-</b>	<b>35.970</b>	<b>37.251</b>	<b>37.785</b>	<b>38.353</b>	<b>57.676</b>	<b>Continuing</b>	<b>Continuing</b>



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Exhibit P-3a, Individual Modification: PB 2016 Army				Date: February 2015			
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 1 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 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): TBD					Installation Quantity: 0		

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army		<b>Date:</b> February 2015
<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 2 of 4:** Enhanced Command and Control (C2)

**Manufacturer Information**

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 9

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

**Installation Information**

**Method of Implementation:** TBD

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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	162 / 2.592	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	162 / 2.592
FY 2014	54 / 0.864	9 / 0.144	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	63 / 1.008
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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	216 / 3.456	9 / 0.144	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	225 / 3.600

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	216	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	225
Out	216	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	225

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army				<b>Date:</b> February 2015			
<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 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020
Delivery Dates			Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020

**Installation Information**

**Method of Implementation:** TBD

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 2014	0 / 0.000	- / -	16 / 0.438	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.438
FY 2015	0 / 0.000	- / -	- / -	17 / 0.538	- / -	17 / 0.538	- / -	- / -	- / -	- / -	- / -	17 / 0.538
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	15 / 3.927	- / -	- / -	- / -	- / -	15 / 3.927
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	13 / 3.472	- / -	- / -	- / -	13 / 3.472
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 2.996	- / -	- / -	11 / 2.996
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.778	- / -	10 / 2.778
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	16 / 0.438	17 / 0.538	- / -	17 / 0.538	15 / 3.927	13 / 3.472	11 / 2.996	10 / 2.778	- / -	82 / 14.149

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	17	-	-	-	15	-	-	-	13	-	-	-	11	-	-	-	10	74	156
Out	-	-	-	-	-	-	-	-	16	-	-	-	17	-	-	-	15	-	-	-	13	-	-	-	11	-	-	-	10	74	156

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army				<b>Date:</b> February 2015			
<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 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020
Delivery Dates			Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020

**Installation Information**

**Method of Implementation:** TBD

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	14 / 0.497	- / -	- / -	- / -	- / -	14 / 0.497
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.434	- / -	- / -	- / -	12 / 0.434
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.443	- / -	- / -	12 / 0.443
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.452	- / -	12 / 0.452
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	14 / 0.497	12 / 0.434	12 / 0.443	12 / 0.452	- / -	50 / 1.826

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	3	4	4	3	3	3	3	3	3	3	3	3	3	3	80	130	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	12	-	-	-	12	-	-	-	12	80	130

**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Army								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications						P-1 Line Item Number / Title: C67501 / HIMARS Modifications						
ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements: 0210600A, 0603778A, 0210602A				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	208.397	6.105	6.008	3.148	-	3.148	2.457	12.353	15.290	17.766	204.749	476.273
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	208.397	6.105	6.008	3.148	-	3.148	2.457	12.353	15.290	17.766	204.749	476.273
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	208.397	6.105	6.008	3.148	-	3.148	2.457	12.353	15.290	17.766	204.749	476.273
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	98.375	-	98.375	-	-	-	-	-	361.635

**Description:**

The M142 High Mobility Artillery Rocket System (HIMARS) is a C-130 Transportable launcher mounted on a Family of Medium Tactical Vehicles (FMTV) chassis. The HIMARS is capable of firing either six Multiple Rocket Launcher System (MLRS) Family of Munitions (MFOM) rockets or one Army Tactical Missile System (ATACMS) Family of Munitions (AFOM) missile to a range of 300 kilometers. Modification kits will be procured for the HIMARS Launcher and associated training and ground support equipment. These modifications are vital to the Forces and will provide an increase in crew protection via an Increased Crew Protection (ICP) cab, Enhance Command and Control (C2), decrease Operations and Support costs, reduce logistical impacts, resolve safety issues, and mitigate obsolescence.

<b>Secondary Distribution</b>		<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.614	2.485	1.008	-	1.008	0.661	5.643	7.111	9.684
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.491	3.523	2.140	-	2.140	1.796	6.710	8.179	8.082
<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>6.105</b>	<b>6.008</b>	<b>3.148</b>	<b>-</b>	<b>3.148</b>	<b>2.457</b>	<b>12.353</b>	<b>15.290</b>	<b>17.766</b>

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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>			<b>Other Related Program Elements:</b> 0210600A, 0603778A, 0210602A		

  

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
C67501 / HIMARS Modifications (Operational, Reliability, Safety, Crew Survivability)	P-3a		- / 208.397	- / 6.105	- / 6.008	- / 3.148	- / -	- / 3.148
<b>Total Gross/Weapon System Cost</b>			<b>- / 208.397</b>	<b>- / 6.105</b>	<b>- / 6.008</b>	<b>- / 3.148</b>	<b>- / -</b>	<b>- / 3.148</b>

  

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
C67501 / HIMARS Modifications (Operational, Reliability, Safety, Crew Survivability)	P-3a		- / 2.457	- / 12.353	- / 15.290	- / 17.766	- / 204.749	- / 476.273
<b>Total Gross/Weapon System Cost</b>			<b>- / 2.457</b>	<b>- / 12.353</b>	<b>- / 15.290</b>	<b>- / 17.766</b>	<b>- / 204.749</b>	<b>- / 476.273</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 add due to rounding.

  

**Justification:**

FY 2016 Base procurement dollars in the amount of \$3.148 million procure and install Enhanced Command and Control (C2), Obsolescence Mitigation/Engineering Change Proposal Integration to include measures for other hardware and software required in support of launcher upgrades such as software modification efforts to address obsolescence along with 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:</b> PB 2016 Army								<b>Date:</b> February 2015				
<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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	208.397	6.105	6.008	3.148	-	3.148	2.457	12.353	15.290	17.766	204.749	476.273
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	208.397	6.105	6.008	3.148	-	3.148	2.457	12.353	15.290	17.766	204.749	476.273
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	208.397	6.105	6.008	3.148	-	3.148	2.457	12.353	15.290	17.766	204.749	476.273
(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> )	-	-	-	98.375	-	98.375	-	-	-	-	-	361.635

**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.

<b>Secondary Distribution</b>		<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.614	2.485	1.008	-	1.008	0.661	5.643	7.111	9.684
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.491	3.523	2.140	-	2.140	1.796	6.710	8.179	8.082
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>6.105</b>	<b>6.008</b>	<b>3.148</b>	<b>-</b>	<b>3.148</b>	<b>2.457</b>	<b>12.353</b>	<b>15.290</b>	<b>17.766</b>

**UNCLASSIFIED**

Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015					
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 2: Enhanced Command and Control (C2)													
A Kits													
Recurring													
Equipment	375 / 37.359	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	375 / 37.359	
Subtotal: Recurring	- / 37.359	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.359	
Subtotal: Enhanced Command and Control (C2)	375 / 37.359	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	375 / 37.359	
Modification Item 2 of 2: Reliability Obsolescence Mitigation (MOD 4)													
A Kits													
Recurring													
Equipment	375 / 98.247	- / 5.432	- / 5.322	- / 2.475	- / -	- / 2.475	- / 2.457	- / 12.353	- / 15.290	- / 17.766	- / 204.749	375 / 364.091	
Subtotal: Recurring	- / 98.247	- / 5.432	- / 5.322	- / 2.475	- / -	- / 2.475	- / 2.457	- / 12.353	- / 15.290	- / 17.766	- / 204.749	- / 364.091	
Subtotal: Reliability Obsolescence Mitigation (MOD 4)	375 / 98.247	- / 5.432	- / 5.322	- / 2.475	- / -	- / 2.475	- / 2.457	- / 12.353	- / 15.290	- / 17.766	- / 204.749	375 / 364.091	
Subtotal: Procurement, All Modification Items	750 / 135.606	- / 5.432	- / 5.322	- / 2.475	- / -	- / 2.475	- / 2.457	- / 12.353	- / 15.290	- / 17.766	- / 204.749	750 / 401.450	
Installation													
Modification Item 1 of 2: Enhanced Command and Control (C2)	118 / 0.508	127 / 0.546	130 / 0.559	130 / 0.559	- / -	130 / 0.559	- / -	- / -	- / -	- / -	- / -	505 / 2.172	
Modification Item 2 of 2: Reliability Obsolescence Mitigation (MOD 4)	48 / 0.048	127 / 0.127	127 / 0.127	127 / 0.114	- / -	127 / 0.114	- / -	- / -	- / -	- / -	- / -	429 / 0.416	
Subtotal: Installation	166 / 0.556	254 / 0.673	257 / 0.686	257 / 0.673	- / -	257 / 0.673	- / -	- / -	- / -	- / -	- / -	934 / 2.588	
Total													
Total Cost (Procurement + Support + Installation)	208.397	6.105	6.008	3.148	-	3.148	2.457	12.353	15.290	17.766	204.749	476.273	



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<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army			<b>Date:</b> February 2015		
<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 2:** 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 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

**Installation Information**

**Method of Implementation:** Organic

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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	118 / 0.508	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	118 / 0.508
FY 2014	0 / 0.000	127 / 0.546	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	127 / 0.546
FY 2015	0 / 0.000	- / -	130 / 0.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	130 / 0.559
FY 2016	0 / 0.000	- / -	- / -	130 / 0.559	- / -	130 / 0.559	- / -	- / -	- / -	- / -	- / -	130 / 0.559
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	118 / 0.508	127 / 0.546	130 / 0.559	130 / 0.559	- / -	130 / 0.559	- / -	- / -	- / -	- / -	- / -	505 / 2.172

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	118	19	38	38	32	19	38	38	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	375

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification:</b> PB 2016 Army			<b>Date:</b> February 2015		
<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 2:** Reliability Obsolescence Mitigation (MOD 4)

**Manufacturer Information**

Manufacturer Name: Government Obsolence Team			Manufacturer Location: TBD		
Administrative Leadtime (in Months): 3			Production Leadtime (in Months): 9		

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

**Installation Information**

**Method of Implementation:** Organic

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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	48 / 0.048	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	48 / 0.048
FY 2014	0 / 0.000	127 / 0.127	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	127 / 0.127
FY 2015	0 / 0.000	- / -	127 / 0.127	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	127 / 0.127
FY 2016	0 / 0.000	- / -	- / -	127 / 0.114	- / -	127 / 0.114	- / -	- / -	- / -	- / -	- / -	127 / 0.114
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	48 / 0.048	127 / 0.127	127 / 0.127	127 / 0.114	- / -	127 / 0.114	- / -	- / -	- / -	- / -	- / -	429 / 0.416

**Installation Schedule**

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	48	19	38	38	32	19	38	38	32	38	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	375

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
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<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
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	5	5	-	5	5	5	5	-	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	304.312	10.474	36.930	33.778	-	33.778	32.888	12.191	11.899	6.057	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	304.312	10.474	36.930	33.778	-	33.778	32.888	12.191	11.899	6.057	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	304.312	10.474	36.930	33.778	-	33.778	32.888	12.191	11.899	6.057	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> )	-	-	7,386.000	6,755.600	-	6,755.600	6,577.600	2,438.200	2,379.800	-	Continuing	Continuing

**Description:**

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

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	4	4	-	4	4	4	4	-
	Total Obligation Authority	10.316	36.704	33.552	-	33.552	32.662	11.965	11.673	6.057
ANG	Quantity	-	1	1	-	1	1	1	1	-
	Total Obligation Authority	0.158	0.226	0.226	-	0.226	0.226	0.226	0.226	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>5</b>	<b>5</b>	<b>-</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>10.474</b>	<b>36.930</b>	<b>33.778</b>	<b>-</b>	<b>33.778</b>	<b>32.888</b>	<b>12.191</b>	<b>11.899</b>	<b>6.057</b>

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 04: Spares and Repair Parts / BSA 10: Spares And Repair Parts				P-1 Line Item Number / Title: CA0250 / Spares And Repair Parts				
ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
CA0265 / MLRS MODIFICATION INITIAL SPARES	P-40a		- / 24.835	- / 1.011	5 / 1.075	5 / 1.058	- / -	5 / 1.058
CA0267 / PATRIOT MODIFICATION INITIAL SPARES	P-40a		- / 198.215	- / 9.463	- / 35.855	- / 32.720	- / -	- / 32.720
Total Gross/Weapon System Cost			- / 304.312	- / 10.474	5 / 36.930	5 / 33.778	- / -	5 / 33.778
*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 add due to rounding.								

## Justification:

FY2016 base procurement dollars in the amount of \$33.778 million support the acquisition of MLRS Modification and Patriot Modification Initial Spares. The funds in this account procure depot level repairable (DLR) secondary items from the Supply Management, Army, activity of the Army Working Capital Fund and commercial life cycle support vendors. To provide initial support, funds are normally required in the same year that end items are fielded.

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-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Army															<b>Date:</b> February 2015				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 04 / 10								<b>P-1 Line Item Number / Title:</b> CA0250 / Spares And Repair Parts							<b>Aggregated Items Title:</b> Various				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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			-	-	24.835	-	-	1.011	215.000	5	1.075	211.600	5	1.058	-	-	-	211.600	5	1.058
Secondary Distribution																				
Army				-	-		-	0.853		4	0.849		4	0.832		-	-		4	0.832
ANG				-	-		-	0.158		1	0.226		1	0.226		-	-		1	0.226
CA0267 / PATRIOT MODIFICATION INITIAL SPARES			-	-	198.215	-	-	9.463	-	-	35.855	-	-	32.720	-	-	-	-	-	32.720
Secondary Distribution																				
Army				-	-		-	9.463		-	35.855		-	32.720		-	-		-	32.720
Subtotal: MLRS MODIFICATION INITIAL SPARES			-	-	223.050	-	-	10.474	-	-	36.930	-	-	33.778	-	-	-	-	-	33.778
Total			-	-	223.050	-	-	10.474	-	-	36.930	-	-	33.778	-	-	-	-	-	33.778

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
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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> C93000 / Air Defense Targets
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	423.219	3.530	3.657	3.717	-	3.717	3.841	3.975	4.111	4.234	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	423.219	3.530	3.657	3.717	-	3.717	3.841	3.975	4.111	4.234	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	423.219	3.530	3.657	3.717	-	3.717	3.841	3.975	4.111	4.234	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> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Air Defense Artillery (ADA) Targets program provides target hardware and associated 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.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.530	3.657	3.717	-	3.717	3.841	3.975	4.111	4.234
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	<b>3.530</b>	<b>3.657</b>	<b>3.717</b>	<b>-</b>	<b>3.717</b>	<b>3.841</b>	<b>3.975</b>	<b>4.111</b>	<b>4.234</b>

**Justification:**

FY 2016 Base procurement dollars in the amount of \$3.717 million support 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)) 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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army		<b>Date:</b> February 2015
<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>	<b>Other Related Program Elements:</b>
<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-40, Budget Line Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
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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> CL2000 / Items Less Than \$5.0m (Missiles)
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	48.010	1.748	1.522	1.544	-	1.544	1.568	1.596	1.625	1.663	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	48.010	1.748	1.522	1.544	-	1.544	1.568	1.596	1.625	1.663	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	48.010	1.748	1.522	1.544	-	1.544	1.568	1.596	1.625	1.663	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> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Provides for the procurement of various tools and shop sets to perform missile maintenance repair tasks on the Army's missile systems worldwide. The U.S. Army Aviation and Missile Life Cycle Management Command (AMCOM-LCMC) provides materiel support to U.S. Army combat units. Under the AMCOM-LCMC, the Program Executive Office, Missiles and Space (PEO MS) is required to build new toolkits and shop sets and replenish unserviceable toolkits and shop sets.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.748	1.522	1.544	-	1.544	1.568	1.596	1.625	1.663
<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>1.748</b>	<b>1.522</b>	<b>1.544</b>	<b>-</b>	<b>1.544</b>	<b>1.568</b>	<b>1.596</b>	<b>1.625</b>	<b>1.663</b>



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army							<b>Date:</b> February 2015	
<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>			<b>Other Related Program Elements:</b>		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
CL2000 / Items Less Than \$5.0m (Missiles)	P-5		- / 48.010	- / 1.748	- / 1.522	- / 1.544	- / -	- / 1.544
<b>Total Gross/Weapon System Cost</b>			<b>- / 48.010</b>	<b>- / 1.748</b>	<b>- / 1.522</b>	<b>- / 1.544</b>	<b>- / -</b>	<b>- / 1.544</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 add due to rounding.</p>								
<p><b>Justification:</b>  FY16 Base procurement dollars in the amount of \$1.544 million support the acquisition of tools and shop sets that support Patriot, Tube-launched, Optically-tracked, Wire-guided (TOW 2A) missile, TOW/ Improved Target Acquisition System (TOW 2B Aero/ITAS) missile, Multiple Launch Rocket System (MLRS), High Mobility Artillery Rocket System (HIMARS), Javelin, and Avenger. The U.S. Army grew Brigade Combat Teams (BCTs) from FY07-FY10 and Program Managers (PMs) placed more tool kits into use. This request funds the increase in wholesale stock.</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-5, Cost Analysis: PB 2016 Army												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10						P-1 Line Item Number / Title: CL2000 / Items Less Than \$5.0m (Missiles)						Item Number / Title [DODIC]: CL2000 / Items Less Than \$5.0m (Missiles)						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				48.010		1.748		1.522		1.544		-		1.544				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P1) (\$ in Millions)				48.010		1.748		1.522		1.544		-		1.544				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				48.010		1.748		1.522		1.544		-		1.544				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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																		
Shop Sets / Tools	-	-	48.010	-	-	1.748	-	-	1.522	-	-	1.544	-	-	-	-	-	1.544
Subtotal: Recurring Cost	-	-	48.010	-	-	1.748	-	-	1.522	-	-	1.544	-	-	-	-	-	1.544
Subtotal: Flyaway Cost	-	-	48.010	-	-	1.748	-	-	1.522	-	-	1.544	-	-	-	-	-	1.544
Gross/Weapon System Cost	-	-	48.010	-	-	1.748	-	-	1.522	-	-	1.544	-	-	-	-	-	1.544
Secondary Distribution						FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Army			Quantity			-		-		-		-		-				
			Total Obligation Authority			1.748		1.522		1.544		-		1.544				
Total: Secondary Distribution			Quantity			-		-		-		-		-				
			Total Obligation Authority			1.748		1.522		1.544		-		1.544				

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
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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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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	354.782	4.677	4.710	4.704	-	4.704	4.779	5.055	5.159	5.273	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	354.782	4.677	4.710	4.704	-	4.704	4.779	5.055	5.159	5.273	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority ( <i>\$ in Millions</i> )	354.782	4.677	4.710	4.704	-	4.704	4.779	5.055	5.159	5.273	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> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

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

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**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army **Date:** February 2015

<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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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
Project Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Project	Exhibits	ID CD	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)
Production Support			-	4.677	4.710	4.704	-	4.704
Iowa AAP; Radford AAP			-	2.626	3.008	2.978	-	2.978
PIF for Other (RN08 - Production Base)	P25		-	2.626	3.008	2.978	-	2.978
Redstone Tech Test Center; White Sands Test Center			-	2.051	1.702	1.726	-	1.726
PIF FOR OTHER (RL07 - Test & Evaluation Instrumentation)	P25		-	2.051	1.702	1.726	-	1.726
<b>Total Gross/Weapon System Cost</b>			-	<b>4.677</b>	<b>4.710</b>	<b>4.704</b>	-	<b>4.704</b>

\*For the P-17 and P-25, the Project column displays a three-level indentation: Project Category (e.g., Environmental), followed by the Facility, followed by the Project Name. Exhibits with no Project Category are included under the "Uncategorized" category. For the P-26, the Project column displays a two-level indentation: Project Type (e.g., Inactive Plants, Inactive Lines at Contractor Plants and Inactive Lines at Active Plants), followed by the Facility. Note also that although all P-17, P-25 and P-26 projects are shown in the project schedule, not all projects will have a corresponding exhibit. A P-17 or P-25 exhibit is only included if data beyond the Project Number, Project Title and Cost are included (for example: for the P-17, Description, Manufacturer, etc.; for the P-25, Narrative Explanation, Cost Elements, Principle Milestones, etc.). A P-26 exhibit is only included if data beyond Project Type and Total Cost are included (for example, Description, Contractor, Maintenance/Recurring/Environmental/Other costs, etc.).

**Justification:**

FY 2016 Base procurement dollars in the amount of \$4.704 million support the establishment, modernization, rightsizing, or replacement of Army-owned industrial facilities. These funds are essential to sustain the Army's production capability for missile end items.

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<b>Exhibit P-25, Production Support and Industrial Facilities Cost Analysis:</b> PB 2016 Army						<b>Date:</b> February 2015	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 05 / 10						<b>P-1 Line Item Number / Title:</b> CA0100 / Production Base Support	
<b>Project Title:</b> PIF for Other (RN08 - Production Base)						<b>Project Number:</b> 6XX5333	<b>Project Category:</b> Production Support
<b>End Item Supported Model:</b> Missile Warheads, Rocket Motors						<b>Annual Capacity Before / After (1-8-5):</b> /	

Cost Elements <i>(\$ in Millions)</i>	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	<b>Facility Name:</b> Iowa AAP; Radford AAP <b>Facility Location:</b> Middletown, IA; Radford, VA <b>Facility Type (GOGO, GOCO, COCO):</b> GOCO																						
A. Construction Cost	0.485	1.385	0.486	-	0.486	<table border="0" style="width:100%;"> <tr> <td style="width:70%;"><b>Principal Milestones</b></td> <td style="width:30%;"><b>Month &amp; Year</b></td> </tr> <tr> <td>Concept Design Complete:</td> <td></td> </tr> <tr> <td>Final Design Complete:</td> <td></td> </tr> <tr> <td>Initial/Final Project Award:</td> <td align="center">Mar 2016 / May 2016</td> </tr> <tr> <td>Construction Complete:</td> <td align="center">Nov 2017</td> </tr> <tr> <td>Equipment Installation Complete:</td> <td align="center">Aug 2017</td> </tr> <tr> <td>Prove Out Begins:</td> <td align="center">Feb 2017</td> </tr> <tr> <td>Prove Out Complete:</td> <td align="center">Sep 2017</td> </tr> </table>		<b>Principal Milestones</b>	<b>Month &amp; Year</b>	Concept Design Complete:		Final Design Complete:		Initial/Final Project Award:	Mar 2016 / May 2016	Construction Complete:	Nov 2017	Equipment Installation Complete:	Aug 2017	Prove Out Begins:	Feb 2017	Prove Out Complete:	Sep 2017					
<b>Principal Milestones</b>	<b>Month &amp; Year</b>																											
Concept Design Complete:																												
Final Design Complete:																												
Initial/Final Project Award:	Mar 2016 / May 2016																											
Construction Complete:	Nov 2017																											
Equipment Installation Complete:	Aug 2017																											
Prove Out Begins:	Feb 2017																											
Prove Out Complete:	Sep 2017																											
B. Equipment Cost	1.869	0.738	1.295	-	1.295																							
C. Equipment Installation Cost	0.125	0.378	1.042	-	1.042																							
D. Contractor Support Cost	0.069	0.222	0.155	-	0.155																							
E. Corps of Engineers Support Cost	-	-	-	-	-																							
F. Other In-House Support Cost	-	-	-	-	-																							
G. Total Facility Project Cost	-	-	-	-	-																							
H. Other Costs	0.078	0.285	-	-	-	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th align="center" colspan="7">Related Projects</th></tr> <tr> <th align="center">Project Number</th><th align="center">Title</th><th align="center">FY &amp; Appn</th><th align="center">Value (\$ M)</th><th align="center">Facing</th><th align="center">Start Date</th><th align="center">Compl Date</th></tr> <tr> <td colspan="7" style="height: 20px;"></td> </tr> </table>		Related Projects							Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Related Projects																												
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date																						
Total Project Cost	2.626	3.008	2.978	-	2.978																							

**Narrative Explanation:**

FY 2016 Base procurement dollars in the amount of \$2.978 million support production capability for missile end items and Iowa and Radford Army Ammunition Plants (AAPs). At Iowa AAP, it supports projects on Line 4B to include replacement of the existing environmental chamber used during the test fire process, construction of a new compressor facility, and replacement of control systems for warhead presses. The effort will also renovate deteriorated structural elements on active production buildings on Line 1-10. At Radford AAP, it will construct and commission new hydraulic power units to control the extrusion process of carpet rolls (solventless propellant) into propellant grains, sticks or small grain configurations.

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<b>Exhibit P-25, Production Support and Industrial Facilities Cost Analysis:</b> PB 2016 Army						<b>Date:</b> February 2015	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2032A / 05 / 10						<b>P-1 Line Item Number / Title:</b> CA0100 / Production Base Support	
<b>Project Title:</b> PIF FOR OTHER (RL07 - Test & Evaluation Instrumentation)						<b>Project Number:</b> 6XXXXXX	<b>Project Category:</b> Production Support
<b>End Item Supported Model:</b> Testing of Missile Systems						<b>Annual Capacity Before / After (1-8-5):</b> /	

Cost Elements <i>(\$ in Millions)</i>	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	<b>Facility Name:</b> Redstone Tech Test Center; White Sands Test Center <b>Facility Location:</b> Huntsville, AL; White Sands Missile Range, NM <b>Facility Type (GOGO, GOCO, COCO):</b> GOGO															
A. Construction Cost	-	-	-	-	-	<b>Principal Milestones</b> <span style="float:right"><b>Month &amp; Year</b></span> Concept Design Complete: Final Design Complete: Initial/Final Project Award: Dec 2015 / Mar 2016 Construction Complete: Equipment Installation Complete: Dec 2016 Prove Out Begins: Prove Out Complete:															
B. Equipment Cost	2.051	1.702	1.726	-	1.726																
C. Equipment Installation Cost	-	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	-	-	-	-	-																
Total Project Cost	2.051	1.702	1.726	-	1.726	<b>Related Projects</b> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="width:10%;">Project Number</th> <th style="width:30%;">Title</th> <th style="width:10%;">FY &amp; Appn</th> <th style="width:10%;">Value (\$ M)</th> <th style="width:10%;">Facing</th> <th style="width:10%;">Start Date</th> <th style="width:10%;">Compl Date</th> </tr> <tr> <td colspan="7" style="height: 40px;"> </td> </tr> </table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
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**Narrative Explanation:**  
 FY 2016 Base procurement dollars in the amount of \$1.726 million support the following: Procures a Non-Track Digital Instrumentation System (NTDIS), which is a mobile video broadcast van with equipment capable of near real time viewing, recording, processing, and remote network control of high-speed video data collected at missile launch sites; multiple types of sensors that collect, record and analyze the physical environments (vibration, shock, displacement, pressure, temperature, & acoustics) on and near the Launcher during weapon firing events; test equipment and radar simulators required to test radar transponders used in missile tracking and flight safety and portable measuring equipment, visual inspection equipment, dynamic balancing instrumentation, and moment of inertia measuring equipment used for dimensional metrology inspection of missile components in the laboratory.