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**Department of Defense
Fiscal Year (FY) 2023 Budget Estimates**

April 2022



Army

*Justification Book of
Missile Procurement, Army*

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Army • Budget Estimates FY 2023 • Procurement

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Cost Statement

The following Justification Books were prepared at a cost of \$474,495.00: 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 5C, Budget Activity 6, Budget Activity 7, and Budget Activity 8.

MISSILE PROCUREMENT, ARMY

Appropriation Language

For construction, procurement, production, modification, and modernization of Missiles, equipment, including ordnance, 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, \$3,761,915.00 to remain available for obligation until September 30, 2025.

Fiscal Year (FY) 2023 Overseas Operations Costs funding accounted for in the Base budget include:

- Combat or direct combat support expenses that discontinue once combat operations end at major contingency locations
\$160,528,000.00.
- In-theater and in-CONUS expenses that remain after combat operations cease and have been previously funded in OCO
\$412,086,000.00

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Department of the Army
FY 2023 President's Budget
Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Apr 2022

Appropriation: **Missile Procurement, Army**

<u>Budget Activity</u>	<u>FY 2021 (Base + OCO)</u>	<u>FY 2022 Enactment</u>	<u>FY 2023 Request</u>
02. Other Missiles	3,154,389	2,942,122	3,246,420
03. Modification of Missiles	848,682	502,305	497,670
04. Spares and Repair Parts	5,090	5,019	6,508
05. Support Equipment and Facilities	8,979	10,618	11,317
Total Missile Procurement, Army	4,017,140	3,460,064	3,761,915

Department of the Army
 FY 2023 President's Budget
 Exhibit P-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2032A Missile Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Enactment		FY 2023 Request		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
Budget Activity 02: Other Missiles										
Surface-to-Air Missile System										
1	Lower Tier Air and Missile Defense (AMD)	Sen	A			33,473		4,260	U	
2	Lower Tier Air and Missile Defense (AMD) Advance Procurement (CY) C (FY 2023 for FY 2024) (M)	Sen						9,200 (9,200)	U	
3	M-SHORAD - Procurement		A	59	517,287	33	331,575	6	135,747	U
4	MSE Missile			178	678,148	180	771,696	252	1,037,093	U
5	PRECISION STRIKE MISSILE (PRSM)		A	28	59,929	88	166,130	120	213,172	U
6	INDIRECT FIRE PROTECTION CAPABILITY INC 2-I		A		62,461		19,053		18,924	U
Air-To-Surface Missile System										
7	Hellfire Sys Summary		A	3572	327,490	920	115,431	752	111,294	U
8	Joint Air-to-Ground MSLS (JAGM)			537	196,548	359	147,177	713	216,030	U
9	Long Range Precision Munition		A	153	38,107	236	44,744			U
10	LONG-RANGE HYPERSONIC WEAPON		A						249,285	U
Anti-Tank/Assault Missile Sys										
11	Javelin (AAWS-M) System Summary			768	181,324	365	128,812	582	162,968	U
12	TOW 2 System Summary		A	1231	112,974	887	101,912	893	105,423	U
13	Guided MLRS Rocket (GMLRS)			5910	903,009	5838	862,699	4674	785,028	U
14	MLRS Reduced Range Practice Rockets (RRPR)			3990	30,836	3648	29,574	342	4,354	U
15	High Mobility Artillery Rocket System (HIMARS)			5	46,276	19	128,438	23	155,705	U
16	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)		A				61,408		37,937	U
Total Other Missiles					3,154,389		2,942,122		3,246,420	

Department of the Army
 FY 2023 President's Budget
 Exhibit P-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Apr 2022

Appropriation: 2032A Missile Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Enactment		FY 2023 Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
<u>Budget Activity 03: Modification of Missiles</u>									
Modifications									
17	Patriot Mods			278,050		205,469		253,689	U
18	ATACMS MODS	A		214,524					U
19	AVENGER MODS			13,942		11,227			U
20	ITAS/TOW Mods			5,666		4,561		5,154	U
21	MLRS Mods			330,419		273,856		218,359	U
22	HIMARS Modifications			6,081		7,192		20,468	U
Total Modification of Missiles				848,682		502,305		497,670	
<u>Budget Activity 04: Spares and Repair Parts</u>									
Spares and Repair Parts									
23	Spares And Repair Parts			5,090		5,019		6,508	U
Total Spares and Repair Parts				5,090		5,019		6,508	
<u>Budget Activity 05: Support Equipment and Facilities</u>									
Support Equipment & Facilities									
24	Air Defense Targets			8,979		10,618		11,317	U
Total Support Equipment and Facilities				8,979		10,618		11,317	
Total Missile Procurement, Army				4,017,140		3,460,064		3,761,915	

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

Appropriation 2032A: Missile Procurement, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	02	10	7265C12000	Lower Tier Air and Missile Defense (AMD) Sensor.....	1
2	02	10	7265C12000	Lower Tier Air and Missile Defense (AMD) Sensor, Advance Procurement.....	4
3	02	10	8082C14300	M-SHORAD - Procurement.....	8
4	02	10	8260C53101	MSE Missile.....	18
5	02	10	8540C29600	PRECISION STRIKE MISSILE (PRSM).....	31
6	02	10	8930C61001	INDIRECT FIRE PROTECTION CAPABILITY INC 2-I.....	40
7	02	20	1338C70000	Hellfire Sys Summary.....	44
8	02	20	2605C70302	Joint Air-to-Ground MSLS (JAGM).....	54
9	02	20	2607C71300	Long Range Precision Munition.....	65
10	02	20	2611C72100	LONG-RANGE HYPERSONIC WEAPON.....	66
11	02	30	0648CC0007	Javelin (AAWS-M) System Summary.....	69
12	02	30	2104C59300	TOW 2 System Summary.....	85
13	02	30	6005C64400	Guided MLRS Rocket (GMLRS).....	95
14	02	30	6060C65405	MLRS Reduced Range Practice Rockets (RRPR).....	107
15	02	30	6200C02901	High Mobility Artillery Rocket System (HIMARS).....	109
16	02	30	6870C88001	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS).....	120

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Appropriation 2032A: Missile Procurement, Army

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17	03	10	0962C50700	Patriot Mods.....	128
18	03	10	1823CA6700	ATACMS MODS.....	169
19	03	10	2690CE8710	AVENGER MODS.....	171
20	03	10	3972C61700	ITAS/TOW Mods.....	173
21	03	10	6552C67500	MLRS Mods.....	178
22	03	10	6580C67501	HIMARS Modifications.....	189

Appropriation 2032A: Missile Procurement, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
23	04	10	1242CA0250	Spares And Repair Parts.....	198

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Appropriation 2032A: Missile Procurement, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
24	05	10	1242C93000	Air Defense Targets.....	201

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
ATACMS MODS	1823CA6700	18	03	10.....	169
AVENGER MODS	2690CE8710	19	03	10.....	171
Air Defense Targets	1242C93000	24	05	10.....	201
Guided MLRS Rocket (GMLRS)	6005C64400	13	02	30.....	95
HIMARS Modifications	6580C67501	22	03	10.....	189
Hellfire Sys Summary	1338C70000	7	02	20.....	44
High Mobility Artillery Rocket System (HIMARS)	6200C02901	15	02	30.....	109
INDIRECT FIRE PROTECTION CAPABILITY INC 2-I	8930C61001	6	02	10.....	40
ITAS/TOW Mods	3972C61700	20	03	10.....	173
Javelin (AAWS-M) System Summary	0648CC0007	11	02	30.....	69
Joint Air-to-Ground MSLS (JAGM)	2605C70302	8	02	20.....	54
LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	6870C88001	16	02	30.....	120
LONG-RANGE HYPERSONIC WEAPON	2611C72100	10	02	20.....	66
Long Range Precision Munition	2607C71300	9	02	20.....	65
Lower Tier Air and Missile Defense (AMD) Sensor	7265C12000	1	02	10.....	1
Lower Tier Air and Missile Defense (AMD) Sensor, Advance Procurement	7265C12000	2	02	10.....	4
M-SHORAD - Procurement	8082C14300	3	02	10.....	8

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
MLRS Mods	6552C67500	21	03	10.....	178
MLRS Reduced Range Practice Rockets (RRPR)	6060C65405	14	02	30.....	107
MSE Missile	8260C53101	4	02	10.....	18
PRECISION STRIKE MISSILE (PRSM)	8540C29600	5	02	10.....	31
Patriot Mods	0962C50700	17	03	10.....	128
Spares And Repair Parts	1242CA0250	23	04	10.....	198
TOW 2 System Summary	2104C59300	12	02	30.....	85

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Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Lookup Matrix by Model

Model: Various		
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
C50700	Patriot Mods	No

Model: NA		
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
C61700	ITAS/TOW Mods	No

Model: M270A1		
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
C67500	MLRS Mods	No

Model: M142 High Mobility Artillery Rocket System		
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
C67501	HIMARS Modifications	No

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 Exhibit P-1M, Procurement Programs - Modification Summary
 (Funding for Modifications)

Funding (\$ M)

P-3a Modification Title	PYS	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Exhibit P-3a										
Patriot Mods	4,764.558	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684
ITAS/TOW Mods	1,799.972	5.666	4.561	5.154	-	5.154	-	-	-	-
MLRS Mods	1,435.185	330.419	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679
HIMARS Modifications	257.731	6.081	7.192	20.468	-	20.468	35.562	50.378	54.986	54.968
Totals (Total Obligation Authority)										
Total Obligation Authority	8,257.446	620.216	491.078	497.670	0.000	497.670	422.155	402.806	1,033.668	1,045.331

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System **P-1 Line Item Number / Title:** 7265C12000 / Lower Tier Air and Missile Defense (AMD) Sensor

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	4	3	5	5	-	17
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	33.473	4.260	-	4.260	628.365	368.041	581.767	584.309	-	2,200.215
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	9.200	-	-	-	-	9.200
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	33.473	4.260	-	4.260	619.165	368.041	581.767	584.309	-	2,191.015
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	9.200	-	9.200	-	-	-	-	-	9.200
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	33.473	13.460	-	13.460	619.165	368.041	581.767	584.309	-	2,200.215

(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>)	-	-	-	-	-	-	157,091.250	122,680.333	116,353.400	116,861.800	-	129,424.412

Description:

This funding line provides Advanced Procurement (AP) for the first low-rate initial production lot of LTAMDS.

This funding line is directly aligned to the Army Air and Missile Defense Modernization priority and this program supports the Air and Missile Defense Cross Functional Team. Lower Tier Air Missile Defense Sensor (LTAMDS) program will provide the required sensing capabilities, surveillance and fire control in the lower tier portion of the Army Integrated Air and Missile Defense (AIAMD) of the ballistic missile defense battlespace. The LTAMDS capability increases sensor/radar performance to maximize the inherent PATRIOT Advanced Capability (PAC-3) Missile Segment Enhanced (MSE) Interceptor capabilities to engage threats. The initial LTAMDS baseline established by the LTAMDS Rapid Prototyping effort will include the procurement of up to 17 sensors planned for fielding in FY26 through FY29. The additional quantities supporting the Army Acquisition Objective shall be fielded beginning in FY30 subsequent to baseline changes identified through Pre-Planned Product Improvement activities.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	4	3	5	5
Total Obligation Authority	-	33.473	13.460	-	13.460	619.165	368.041	581.767	584.309
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	4	3	5	5
Total Obligation Authority	-	33.473	13.460	-	13.460	619.165	368.041	581.767	584.309

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System **P-1 Line Item Number / Title:** 7265C12000 / Lower Tier Air and Missile Defense (AMD) Sensor

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C12101 / Lower Tier Air and Missile Defense Sensor				- / -	- / -	- / 33.473	- / 4.260	- / -	- / 4.260
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / 33.473	- / 4.260	- / -	- / 4.260

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

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

Justification:
 FY23 base Procurement dollars in the amount of \$13.460 million will support advance procurement of component parts as well as Interim Contractor Support (ICS).
 This program supports the Air and Missile Defense Cross Functional Team (CFT).

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 7265C12000 / Lower Tier Air and Missile Defense (AMD) Sensor	Item Number / Title [DODIC]: C12101 / Lower Tier Air and Missile Defense Sensor

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	33.473	4.260	-	4.260
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	33.473	4.260	-	4.260
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	9.200	-	9.200
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	33.473	13.460	-	13.460

(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>	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
ICS (Interim Contractor Support)	-	-	-	-	-	-	-	-	6.573	-	-	4.260	-	-	-	-	-	4.260
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	6.573	-	-	4.260	-	-	-	-	-	4.260
Non Recurring Cost																		
IPF (Initial Production Facilitization)	-	-	-	-	-	-	-	-	26.900	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	26.900	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	33.473	-	-	4.260	-	-	-	-	-	4.260
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	33.473	-	-	4.260	-	-	-	-	-	4.260

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	33.473	13.460	-	13.460
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	33.473	13.460	-	13.460

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System	P-1 Line Item Number / Title: 7265C12000 / Lower Tier Air and Missile Defense (AMD) Sensor
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Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	9.200	-	9.200	-	-	-	-	-	9.200
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	9.200	-	9.200	-	-	-	-	-	9.200
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	9.200	-	9.200	-	-	-	-	-	9.200

Description:

This funding line provides Advanced Procurement (AP) for the first low-rate initial production lot of LTAMDS.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System	P-1 Line Item Number / Title: 7265C12000 / Lower Tier Air and Missile Defense (AMD) Sensor
---	--

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	C12101 / Lower Tier Air and Missile Defense Sensor			- / -	- / -	- / -	- / 9.200	- / -	- / 9.200
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / 9.200	- / -	- / 9.200

*Title represents the P-10 Title for Advance Procurement.

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

Justification:
 Advanced procurement will be used to procure long lead items for the 1st BN of LRIP sensors.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2023 Army					Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10		P-1 Line Item Number / Title: 7265C12000 / Lower Tier Air and Missile Defense (AMD) Sensor			P-5 Number / Title: C12101 / Lower Tier Air and Missile Defense Sensor	
First System (2023) Award Date: March 2023		First System (2023) Completion Date: November 2024		Interval Between Systems: 20 Months		
Lower Tier Air and Missile Defense Sensor		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2021 <i>(Each)</i>	FY 2022 <i>(Each)</i>	FY 2023 <i>(Each)</i>
Quantity			-	-	-	-
Cost Elements		When Required <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2021 <i>(\$ M)</i>	FY 2022 <i>(\$ M)</i>	FY 2023 <i>(\$ M)</i>
Other						
Radar Enclosure Electronics Long Lead Kit		-	-	-	-	5.060
Array Structure Material Long Lead Kit		-	-	-	-	3.220
Array Electronics Long Lead Kit		-	-	-	-	0.920
<i>Total: Other</i>			-	-	-	9.200
Total Advance Procurement/Obligation Authority			-	-	-	9.200

UNCLASSIFIED

Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10		P-1 Line Item Number / Title: 7265C12000 / Lower Tier Air and Missile Defense (AMD) Sensor			P-5 Number / Title: C12101 / Lower Tier Air and Missile Defense Sensor		
		FY 2023					
Cost Elements	QPA <i>(Each)</i>	Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ K)</i>	Contract Forecast Date	2023 Qty <i>(Each)</i>	For FY	Total Cost Request <i>(\$ M)</i>
Other							
Radar Enclosure Electronics Long Lead Kit	-						5.060
Array Structure Material Long Lead Kit	-						3.220
Array Electronics Long Lead Kit	-						0.920
<i>Total: Other</i>							9.200
Total Advance Procurement/Obligation Authority							9.200

Description:
 This funding line is directly aligned to the Army Air and Missile Defense Modernization priority and this program supports the Air and Missile Defense Cross Functional Team. Advanced procurement will be used to procure long lead items.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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

P-1 Line Item Number / Title:
 8082C14300 / M-SHORAD - Procurement

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604117A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	28	59	33	6	-	6	-	2	6	6	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	233.300	517.287	331.575	135.747	-	135.747	58.336	205.657	487.003	487.120	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	233.300	517.287	331.575	135.747	-	135.747	58.336	205.657	487.003	487.120	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	233.300	517.287	331.575	135.747	-	135.747	58.336	205.657	487.003	487.120	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>)	8,332.143	8,767.576	10,047.727	22,624.500	-	22,624.500	-	102,828.500	81,167.167	81,186.667	Continuing	Continuing

Description:

This funding line is directly aligned to the Army Air and Missile Defense Modernization Priority.

M-SHORAD is an Air Defense weapon system consisting of multiple ground-to-air missile launchers, sensors, and a gun integrated on a Stryker A1 combat vehicle providing the Army improved capabilities for defense of maneuver formations and other tactical echelons from low altitude air attack and surveillance. Adaptive threats have developed a suite of airborne threat capabilities, supported by an integrated mix of surface-to-air and surface-to-surface shooters that threaten the ability of maneuver forces to conduct operations. Specifically, maneuver formations require the improved M-SHORAD air defense identification and defeat capabilities to counter Fixed Wing (FW), Rotary Wing (RW), and Unmanned Aircraft Systems (UAS) threats.

The M-SHORAD capability will be provided using an incremental approach as part of a Family of Systems (FoS) capable of operating individually and collectively to provide the scalability and flexibility to meet mission demands. The first increment is the rapidly fielded M-SHORAD Inc. 1 system, which is supported by a FY 2018 Army Approved Directed Requirement informed by a FY 2017 M-SHORAD demonstration. Follow-on increments to the M-SHORAD FoS will be supported by a Joint Requirements Oversight Council (JROC) approved Capability Development Document (CDD).

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	59	33	6	-	6	-	2	6	6
Total Obligation Authority	517.287	331.575	135.747	-	135.747	58.336	205.657	487.003	487.120
Total:									
Secondary Distribution									
Quantity	59	33	6	-	6	-	2	6	6
Total Obligation Authority	517.287	331.575	135.747	-	135.747	58.336	205.657	487.003	487.120

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System **P-1 Line Item Number / Title:** 8082C14300 / M-SHORAD - Procurement

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604117A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C14301 / Maneuver - Short Range Air Defense (M-SHORAD)	P-5a, P-21	A		28 / 233.300	59 / 517.287	33 / 331.575	6 / 135.747	- / -	6 / 135.747
P-40	Total Gross/Weapon System Cost				28 / 233.300	59 / 517.287	33 / 331.575	6 / 135.747	- / -	6 / 135.747

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

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

Justification:
 FY 2023 Base procurement funding in the amount of \$135.747 million procures six (6) M-SHORAD Inc. 1 systems, six (6) Institutional Training Base (ITB) systems, associated training systems, GFE, spares, and logistic support costs.

On 21 January 2018, the Army approved a Directed Requirement (DR) initiating the integration and procurement of an Initial M-SHORAD (now known as M-SHORAD Inc.1) capability on a Stryker combat vehicle. PEO MS awarded a Not to Exceed (NTE) Federal Acquisition Regulation (FAR) based Fixed Price Undefined Contract Action (UCA) to General Dynamics Land Systems (GDLS) on Sept 30, 2020. The Army definitized the production contract in 2QFY22 for the procurement and fielding of systems, spares, engineering services and Logistics support.

The M-SHORAD procurement funding profile was built to a directed requirement of 144. Funding decrease from FY 2022 to FY 2023 is due to the planned ramp down in vehicle procurement.

The Army definitized the production contract for 124 MSHORAD INC 1 systems on 4 February 2022. The negotiated prices resulted in a change in procurement quantities for all three years. Updated quantities by FY are, Prior Year (29 qty.), FY21 (62 qty.) and FY22 (33 qty.)

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement	Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	28	59	33	6	-	6
Gross/Weapon System Cost (\$ in Millions)	233.300	517.287	331.575	135.747	-	135.747
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	233.300	517.287	331.575	135.747	-	135.747
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	233.300	517.287	331.575	135.747	-	135.747

(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)	8,332.143	8,767.576	10,047.727	22,624.500	-	22,624.500

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																		
Initial M-SHORAD ^(†)	7,718.414	29	223.834	7,729.758	62	479.245	8,505.273	33	280.674	8,814.083	12	105.769	-	-	-	8,814.083	12	105.769
<i>Subtotal: Recurring Cost</i>	-	-	223.834	-	-	479.245	-	-	280.674	-	-	105.769	-	-	-	-	-	105.769
Non Recurring Cost																		
Engineering Sevices	-	-	4.779	-	-	4.000	-	-	5.700	-	-	2.498	-	-	-	-	-	2.498
<i>Subtotal: Non Recurring Cost</i>	-	-	4.779	-	-	4.000	-	-	5.700	-	-	2.498	-	-	-	-	-	2.498
<i>Subtotal: Flyaway Cost</i>	-	-	228.613	-	-	483.245	-	-	286.374	-	-	108.267	-	-	-	-	-	108.267
Hardware Cost																		
Recurring Cost																		
GFE Hardware	-	-	3.215	-	-	13.757	-	-	4.900	-	-	1.538	-	-	-	-	-	1.538
30mm Ammo	-	-	-	-	-	-	-	-	-	-	-	8.500	-	-	-	-	-	8.500
Platoon Leader Vehicle (PLT) Vehicle Integration	-	-	-	-	-	-	-	-	-	-	-	2.060	-	-	-	-	-	2.060
<i>Subtotal: Recurring Cost</i>	-	-	3.215	-	-	13.757	-	-	4.900	-	-	12.098	-	-	-	-	-	12.098
<i>Subtotal: Hardware Cost</i>	-	-	3.215	-	-	13.757	-	-	4.900	-	-	12.098	-	-	-	-	-	12.098
Package Fielding Cost																		
Recurring Cost																		
Fielding	-	-	-	-	-	-	-	-	8.100	-	-	2.800	-	-	-	-	-	2.800
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	8.100	-	-	2.800	-	-	-	-	-	2.800

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement	Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD)

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Package Fielding Cost</i>	-	-	-	-	-	-	-	-	8.100	-	-	2.800	-	-	-	-	-	2.800
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	13.985	-	-	26.201	-	-	1.809	-	-	-	-	-	1.809
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	13.985	-	-	26.201	-	-	1.809	-	-	-	-	-	1.809
Support - Logistics Cost																		
Integrated Logistics Support	-	-	-	-	-	3.500	-	-	3.800	-	-	7.790	-	-	-	-	-	7.790
<i>Subtotal: Support - Logistics Cost</i>	-	-	-	-	-	3.500	-	-	3.800	-	-	7.790	-	-	-	-	-	7.790
Support - Program Management Cost																		
Government Management	-	-	1.472	-	-	2.800	-	-	2.200	-	-	2.983	-	-	-	-	-	2.983
<i>Subtotal: Support - Program Management Cost</i>	-	-	1.472	-	-	2.800	-	-	2.200	-	-	2.983	-	-	-	-	-	2.983
Gross/Weapon System Cost	8,332.143	28	233.300	8,767.576	59	517.287	10,047.727	33	331.575	22,624.500	6	135.747	-	-	-	22,624.500	6	135.747

Remarks:
FY 2023 Base procurement funding in the amount of \$135.747 million procures six (6) M-SHORAD Inc. 1 systems, six (6) Institutional Training Base (ITB) systems, associated training systems, GFE, spares, and logistic support costs.

FY 2023 ILS supports transportation, New Equipment Training (NET) and Contractor Logistics Support (CLS) for 2 Battalions.

The Army definitized the production contract for 124 MSHORAD INC 1 systems on 4 February 2022. The negotiated prices resulted in a change in procurement quantities for all three years. Updated quantities by FY are, Prior Year (29 qty.), FY21 (62 qty.) and FY22 (33 qty.)

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	59	33	6	-	6
	Total Obligation Authority	517.287	331.575	135.747	-	135.747
Total: Secondary Distribution	Quantity	59	33	6	-	6
	Total Obligation Authority	517.287	331.575	135.747	-	135.747

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement	Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD)
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army							Date: April 2022				
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10			P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement				Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD)				

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
Initial M-SHORAD ^(†)		2020	GDLS / Sterling, MI	SS / FFP	Huntsville, AL	Sep 2020	Jun 2022	29	8,253.571	N		
Initial M-SHORAD ^(†)		2021	GDLS / Sterling, MI	SS / FFP	Huntsville, AL	May 2021	Dec 2022	62	7,729.758	N		
Initial M-SHORAD ^(†)		2022	GDLS / Sterling, MI	SS / FFP	Huntsville, AL	Feb 2022	Oct 2023	33	8,505.273	N		
Initial M-SHORAD ^(†)		2023	GDLS / Sterling, MI	SS / FFP	Huntsville, AL	Mar 2023	Apr 2024	12	8,814.083	N		

^(†) indicates the presence of a P-21

Remarks:
 FY 2023 Base procurement funding in the amount of \$135.747 million procures six (6) M-SHORAD Inc. 1 systems, six (6) Institutional Training Base (ITB) systems, associated training systems, GFE, spares, and logistic support costs.
 The Army definitized the production contract for 124 MSHORAD INC 1 systems on 4 February 2022. The negotiated prices resulted in a change in procurement quantities for all three years. Updated quantities by FY are, Prior Year (29 qty.), FY21 (62 qty.) and FY22 (33 qty.)

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Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10		P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement
		Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022														Fiscal Year 2023														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023														
							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					
Initial M-SHORAD																																			
1	2020	ARMY		29	0	29	-	-	-	-	-	-	-	-	-	-	1	3	4	6	6	6	2											1	
1	2021	ARMY		62	0	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	6	6	6	6	6	6	6	6	6	6	6	4	
1	2022	ARMY		33	0	33																												33	
1	2023	ARMY		12	0	12																													12

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Exhibit P-21, Production Schedule: PB 2023 Army															Date: April 2022														
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10										P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement										Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024													Fiscal Year 2025													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							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			
Initial M-SHORAD																																	
	1	2020	ARMY	29	28	1																							1				
	1	2021	ARMY	62	58	4	1																						3				
	1	2022	ARMY	33	0	33	5	6	6	6	4	4	2																0				
	1	2023	ARMY	12	0	12	-	-	-	-	-	-	6	6															0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10		P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement
		Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GDLS - Sterling, MI	3	4	6	12	6	21	27	7	2	21	23

Remarks:
 FY 2023 Base procurement funding in the amount of \$135.747 million procures six (6) M-SHORAD Inc. 1 systems, six (6) Institutional Training Base (ITB) systems, associated training systems, GFE, spares, and logistic support costs.

The Army definitized the production contract for 124 MSHORAD INC 1 systems on 4 February 2022. The negotiated prices resulted in a change in procurement quantities for all three years. Updated quantities by FY are, Prior Year (29 qty.), FY21 (62 qty.) and FY22 (33 qty.)

"A" in the Delivery Schedule indicates the Contract Award Date.

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System **P-1 Line Item Number / Title:** 8260C53101 / MSE Missile

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604865A, 0603869A, 0604869A, 0605456A

Line Item MDAP/MAIS Code: 492

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	1,437	178	180	252	-	252	234	236	238	240	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5,925.452	678.148	771.696	1,037.093	-	1,037.093	978.741	982.922	991.265	1,002.608	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5,925.452	678.148	771.696	1,037.093	-	1,037.093	978.741	982.922	991.265	1,002.608	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5,925.452	678.148	771.696	1,037.093	-	1,037.093	978.741	982.922	991.265	1,002.608	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>)	4,123.488	3,809.820	4,287.200	4,115.448	-	4,115.448	4,182.654	4,164.924	4,164.979	4,177.533	Continuing	Continuing

Description:

This funding line is a key enabler of the Army Modernization Priorities in support of Air and Missile Defense.

NOTE:
The correct P-40 missile quantity for FY21 is 146. P-40 reflects 146 missiles and 32 Launcher Mod Kits. See P-5 for correct quantity breakout.

The PAC-3 MSE Missile line supports the procurement of certified missile round and required ancillary hardware for production and fielding, Field Surveillance Program (FSP), PAC-3 Missile Support Center (P3MSC), Integrated Logistics Support (ILS), US Unique Engineering Services (ES), and System Engineering Program Management (SEPM) activities.

The Patriot Advanced Capability 3 (PAC-3) Missile Segment Enhancement (MSE) is a high velocity hit-to-kill, surface-to-air missile capable of intercepting tactical ballistic missiles, air breathing threats, cruise missiles, and unmanned aerial systems. The PAC-3 MSE represents the next generation PAC-3 missile which provides expanded battlespace performance against evolving threats and has been fully integrated into the Patriot system for US and international partners. The PAC-3 MSE is an agile, lethal interceptor providing substantial missile capabilities when combined with critical ground system improvements.

Additionally, the PAC-3 MSE enhances Insensitive Munitions (IM) through a less sensitive, increased performance lethality enhancer, the addition of armor and a thermally initiated venting system. A single canister design provides enhanced warfighter and logistics flexibility, and facilitates improved IM performance for greater warfighter safety. The Patriot Advanced Capability-3 (PAC-3) Missile Field Surveillance Program (FSP) is required to ensure that the reliability, performance, and safety of fielded missiles in the Patriot family remain within the classified system specification for the life of the system. Initial FSP tasks confirm the quality of design, materials, tooling and test equipment procedures, and processes used in the manufacture of the Patriot Family of Missiles (PFoM). 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 PFoM are fielded under the Certified Round Concept. Under this approved concept, the missiles are 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 Short and Intermediate Effectors for Layered Defense (SHIELD) Project Office to be at an acceptable level for a stated period of time or corrective action is taken.

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity:
 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System **P-1 Line Item Number / Title:**
 8260C53101 / MSE Missile

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604865A, 0603869A, 0604869A, 0605456A

Line Item MDAP/MAIS Code: 492

Systems Engineering and Project Management support encompasses the overall planning, management, and control of the Patriot Weapon System. Includes all Engineering and Program Management disciplines and activities.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	178	180	252	-	252	234	236	238	240
	Total Obligation Authority	678.148	771.696	1,037.093	-	1,037.093	978.741	982.922	991.265	1,002.608
Total:	Quantity	178	180	252	-	252	234	236	238	240
Secondary Distribution	Total Obligation Authority	678.148	771.696	1,037.093	-	1,037.093	978.741	982.922	991.265	1,002.608

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army			Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System		P-1 Line Item Number / Title: 8260C53101 / MSE Missile	
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604865A, 0603869A, 0604869A, 0605456A	

Line Item MDAP/MAIS Code: 492

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C53101 / MSE Missile	P-5a, P-21			1,437 / 5,925.452	178 / 678.148	180 / 771.696	252 / 1,037.093	- / -	252 / 1,037.093
P-40	Total Gross/Weapon System Cost				1,437 / 5,925.452	178 / 678.148	180 / 771.696	252 / 1,037.093	- / -	252 / 1,037.093

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2023 Base Procurement Dollars in the amount of \$625.007 million supports the production of 146 Missile Segment Enhancement (MSE) missiles, Field Surveillance Program (FSP), supporting equipment, ancillary missile items, PAC-3 Missile Support Center (P3MSC), Obsolescence, System Engineering/Program Management (SE/PM), and Government/Software Engineering. FY 2023 Base Procurement Dollars in the amount of \$412.086M procures 106 missiles in support of the European Deterrence Initiative (EDI).
 Funding increase from FY 2022 to FY 2023 is due to increased procurement of 72 missiles.
 The correct P-40 missile quantity for FY21 is 146. P-40 reflects 146 missiles and 32 Launcher Mod Kits. See P-5 for correct quantity breakout.
 Army Acquisition Objective (AAO) is 3376.
 *Unit prices reflect an assessed yearly Foreign Military Sales (FMS) procurement of PAC-3 missile variants. In the event FMS procurements do not occur at this level, the budgeted missile unit price may not be achievable.
 **The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to increase the Army procurement MSE missiles.
 ***Transitioned from Fixed Price Incentive (Firm Target) (FPIF) to Firm Fixed Price (FFP) in FY21 PAC-3 Production contract.

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10		P-1 Line Item Number / Title: 8260C53101 / MSE Missile
		Item Number / Title [DODIC]: C53101 / MSE Missile

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	1,437	178	180	252	-	252
Gross/Weapon System Cost (\$ in Millions)	5,925.452	678.148	771.696	1,037.093	-	1,037.093
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5,925.452	678.148	771.696	1,037.093	-	1,037.093
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,925.452	678.148	771.696	1,037.093	-	1,037.093

(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)	4,123.488	3,809.820	4,287.200	4,115.448	-	4,115.448

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 ^(†)	3,950.750	1,290	5,096.467	3,813.760	146	556.809	3,795.933	180	683.268	3,825.131	252	963.933	-	-	-	3,825.131	252	963.933
Field Surveillance	-	-	53.908	-	-	18.732	-	-	18.169	-	-	18.107	-	-	-	-	-	18.107
PAC-3 Missile Support Center (P3MSC)	-	-	30.163	-	-	10.501	-	-	10.356	-	-	10.956	-	-	-	-	-	10.956
Obsolescence	-	-	115.371	-	-	15.307	-	-	16.007	-	-	20.999	-	-	-	-	-	20.999
Launcher Mod Kit (LMK)	1,026.407	81	83.139	253.094	32	8.099	255.960	25	6.399	-	-	-	-	-	-	-	-	-
Heater Kits	-	-	2.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Msl Round Trainer / Empty Round Trainer	-	-	211.833	-	-	44.601	-	-	14.599	-	-	-	-	-	-	-	-	-
Initial Production Facilitation	-	-	88.313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Government/Software Engineering	-	-	50.841	-	-	9.699	-	-	9.299	-	-	9.399	-	-	-	-	-	9.399
Sys Engrg/Proj Mgmt (SE/PM) Contractor	-	-	192.917	-	-	13.401	-	-	13.599	-	-	13.699	-	-	-	-	-	13.699
Subtotal: Recurring Cost	-	-	5,925.452	-	-	677.149	-	-	771.696	-	-	1,037.093	-	-	-	-	-	1,037.093
Non Recurring Cost																		
Organic	-	-	-	-	-	0.999	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	0.999	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	5,925.452	-	-	678.148	-	-	771.696	-	-	1,037.093	-	-	-	-	-	1,037.093

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Exhibit P-5, Cost Analysis: PB 2023 Army												Date: April 2022					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10						P-1 Line Item Number / Title: 8260C53101 / MSE Missile						Item Number / Title [DODIC]: C53101 / MSE Missile					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	4,123.488	1,437	5,925.452	3,809.820	178	678.148	4,287.200	180	771.696	4,115.448	252	1,037.093	-	-	-	4,115.448	252	1,037.093

Remarks:
Beginning FY21, funds from System Integration and Test Procurement / C50016 were realigned into MSE Missile / C53101.

The correct P-40 missile quantity for FY21 is 146. P-40 reflects 146 missiles and 32 Launcher Mod Kits.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	178	180	252	-	252
	Total Obligation Authority	678.148	771.696	1,037.093	-	1,037.093
Total: Secondary Distribution	Quantity	178	180	252	-	252
	Total Obligation Authority	678.148	771.696	1,037.093	-	1,037.093

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 8260C53101 / MSE Missile	Item Number / Title [DODIC]: C53101 / MSE Missile
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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 ^(†)		2015	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Jul 2015	Jan 2017	108	4,425.000	Y		May 2014
Missile Hardware ^(†)		2016	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Dec 2015	Aug 2018	112	3,940.180	Y		May 2014
Missile Hardware ^(†)		2017	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Dec 2016	Oct 2019	170	4,266.530	Y		Dec 2015
Missile Hardware ^(†)		2018	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Dec 2017	May 2020	387	3,793.380	Y		Dec 2015
Missile Hardware ^(†)		2019	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Dec 2018	May 2021	274	3,733.398	Y		Jun 2017
Missile Hardware ^(†)		2020	LMMFC / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Mar 2019	Jul 2022	147	4,117.265	Y		Jun 2017
Missile Hardware ^(†)		2021	LMMFC / Dallas, TX	SS / FFP	AMCOM, RSA, AL	Dec 2020	May 2023	146	3,813.760	Y		Jun 2019
Missile Hardware ^(†)		2022	LMMFC / Dallas, TX	SS / FFP	AMCOM, RSA, AL	Dec 2021	May 2024	180	3,795.933	Y		Jun 2019
Missile Hardware ^(†)		2023	LMMFC / Dallas, TX	SS / FFP	AMCOM, RSA, AL	Dec 2022	May 2025	252	3,825.131	Y		Jun 2019

^(†) indicates the presence of a P-21

Remarks:

For FY23, the unit cost of \$3,825,131 is comprised of the PAC-3 MSE Missile (\$3,330,885), required ancillary hardware (\$201,705), and required producibility resilience (\$292,541). Ancillary hardware includes items such as MSE conversion kits, telemetry kits, parts library, storage/aging, tooling, and initial issue spares. Producibility resilience includes production continuity efforts specific to each annual production buy to ensure the stability of production capacity.

Transitioned from FPIF to FFP in FY21 PAC-3 Production contract.
Exhibit P-21, Production Schedule is subject to change.

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 8260C53101 / MSE Missile	Item Number / Title [DODIC]: C53101 / MSE Missile
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015													Fiscal Year 2016													BALANCE																										
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																																						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												
Missile Hardware																																																										
Prior Years Deliveries: 92																																																										
1	2015	ARMY		108	0	108																								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	108				
1	2016	ARMY		112	0	112																																																		112		
1	2017	ARMY		170	0	170																																																			170	
1	2018	ARMY		387	0	387																																																			387	
1	2019	ARMY		274	0	274																																																			274	
1	2020	ARMY		147	0	147																																																			147	
1	2021	ARMY		146	0	146																																																			146	
1	2022	ARMY		180	0	180																																																			180	
1	2023	ARMY		252	0	252																																																				252
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 **P-1 Line Item Number / Title:** 8260C53101 / MSE Missile **Item Number / Title [DODIC]:** C53101 / MSE Missile

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017													Fiscal Year 2018													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Missile Hardware																																	
Prior Years Deliveries: 92																																	
1	2015	ARMY		108	0	108	-	-	-	10	2	3	3	17	12	12	14	12	12	11									0				
1	2016	ARMY		112	0	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10	94			
1	2017	ARMY		170	0	170			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170				
1	2018	ARMY		387	0	387																				A	-	-	387				
1	2019	ARMY		274	0	274																							274				
1	2020	ARMY		147	0	147																							147				
1	2021	ARMY		146	0	146																							146				
1	2022	ARMY		180	0	180																							180				
1	2023	ARMY		252	0	252																							252				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 **P-1 Line Item Number / Title:** 8260C53101 / MSE Missile **Item Number / Title [DODIC]:** C53101 / MSE Missile

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2019													Fiscal Year 2020													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							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																																	
Prior Years Delivery: 92																																	
1	2015	ARMY		108	108	0																							0				
1	2016	ARMY		112	18	94	10	10	10	10	10	12	8	10	14														0				
1	2017	ARMY		170	0	170	-	-	-	-	-	-	-	-	-				22	22	21	21	21	21	21	21			0				
1	2018	ARMY		387	0	387	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	35	35	34	34	34	215		
1	2019	ARMY		274	0	274				A	-	-	-	-	-				-	-	-	-	-	-	-	-	-	-	-	274			
1	2020	ARMY		147	0	147							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147				
1	2021	ARMY		146	0	146																							146				
1	2022	ARMY		180	0	180																							180				
1	2023	ARMY		252	0	252																							252				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 **P-1 Line Item Number / Title:** 8260C53101 / MSE Missile **Item Number / Title [DODIC]:** C53101 / MSE Missile

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							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																															
Prior Years Deliveries: 92																															
1		2015	ARMY	108	108	0																							0		
1		2016	ARMY	112	112	0																							0		
1		2017	ARMY	170	170	0																							0		
1		2018	ARMY	387	172	215	36	36	36	36	36	35																	0		
1		2019	ARMY	274	0	274	-	-	-	-	-	-	24	25	25	25	25	25	25	25	25	25	25	25	25	25			0		
1		2020	ARMY	147	0	147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	15	12	108	
1		2021	ARMY	146	0	146			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146		
1		2022	ARMY	180	0	180																							180		
1		2023	ARMY	252	0	252																							252		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 **P-1 Line Item Number / Title:** 8260C53101 / MSE Missile **Item Number / Title [DODIC]:** C53101 / MSE Missile

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T O 1 O C T 2 0 2 2	BAL D U E A S O F 1 O C T	Calendar Year 2023												Calendar Year 2024												
							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																															
Prior Years Deliveries: 92																															
1	2015	ARMY		108	108	0																							0		
1	2016	ARMY		112	112	0																							0		
1	2017	ARMY		170	170	0																							0		
1	2018	ARMY		387	387	0																							0		
1	2019	ARMY		274	274	0																							0		
1	2020	ARMY		147	39	108	15	12	15	12	15	12	12	15															0		
1	2021	ARMY		146	0	146	-	-	-	-	-	-	-	11	11	11	14	14	14	14	12	12	11	11					0		
1	2022	ARMY		180	0	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	14	14	14	14	114	
1	2023	ARMY		252	0	252			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	252		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 **P-1 Line Item Number / Title:** 8260C53101 / MSE Missile **Item Number / Title [DODIC]:** C53101 / MSE Missile

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025												Fiscal Year 2026												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026												
							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																															
Prior Years Deliveries: 92																															
1		2015	ARMY	108	108	0																							0		
1		2016	ARMY	112	112	0																							0		
1		2017	ARMY	170	170	0																							0		
1		2018	ARMY	387	387	0																							0		
1		2019	ARMY	274	274	0																							0		
1		2020	ARMY	147	147	0																							0		
1		2021	ARMY	146	146	0																							0		
1		2022	ARMY	180	66	114	16	16	16	17	17	16	16																0		
1		2023	ARMY	252	0	252	-	-	-	-	-	-	-	20	20	20	20	20	20	20	20	20	20	20	20	20	12	0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10		P-1 Line Item Number / Title: 8260C53101 / MSE Missile
		Item Number / Title [DODIC]: C53101 / MSE Missile

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	LMMFC - Dallas, TX	144	500	500	0	6	18	24	0	6	18	24

Remarks:
 The PAC-3 MSE production line includes deliveries for both US and Foreign Military Sales (FMS). Gaps between scheduled US missile deliveries are attributed to FMS. FMS and US combine to provide significant production line continuity and buying power efficiencies. 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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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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

P-1 Line Item Number / Title:
8540C29600 / PRECISION STRIKE MISSILE (PRSM)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0607134A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	28	88	120	-	120	194	242	266	264	-	1,202
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	59.929	166.130	213.172	-	213.172	339.302	408.505	439.882	436.358	-	2,063.278
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	59.929	166.130	213.172	-	213.172	339.302	408.505	439.882	436.358	-	2,063.278
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	59.929	166.130	213.172	-	213.172	339.302	408.505	439.882	436.358	-	2,063.278

(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>)	-	2,140.321	1,887.841	1,776.433	-	1,776.433	1,748.979	1,688.037	1,653.692	1,652.871	-	1,716.537

Description:

This funding line is directly aligned to the Army Long Range Precision Fires Modernization Priority.

Precision Strike Missile (PrSM) is the Army's next generation surface-to-surface missile that replaces and improves upon Army Tactical Missile System (ATACMS) capabilities. PrSM requirements include: max range of greater than 400km, specified lethality against the designated target set, a Launch Pod Missile Container (LPMC) that holds two missiles, survivability in a threat environment, and compatibility with the existing launcher platforms (M270A2 Multiple Launch Rocket System (MLRS) and M142 High Mobility Artillery Rocket System (HIMARS)). PrSM will meet cluster and insensitive munition requirements and is being designed with an open system architecture that provides the capability for future growth to counter new and emerging threats. The mission of PrSM is to attack, neutralize, suppress, and destroy targets using missile delivered indirect precision fires. PrSM will provide Joint Force Commanders with a 24/7, all-weather capability to attack critical and time sensitive area and point targets including threat air defense, missile launchers, command and control centers, assembly/staging areas and high payoff targets at all depths of the multi-domain battlefield. PrSM will counter the enemy's ability to conduct combat maneuver and air defense operations.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	28	88	120	-	120	194	242	266	264
Total Obligation Authority	59.929	166.130	213.172	-	213.172	339.302	408.505	439.882	436.358
Total:									
Secondary Distribution									
Quantity	28	88	120	-	120	194	242	266	264
Total Obligation Authority	59.929	166.130	213.172	-	213.172	339.302	408.505	439.882	436.358

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System **P-1 Line Item Number / Title:** 8540C29600 / PRECISION STRIKE MISSILE (PRSM)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0607134A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C29850 / PrSM Baseline	P-5a, P-21			- / -	28 / 59.929	88 / 166.130	120 / 213.172	- / -	120 / 213.172
P-40	Total Gross/Weapon System Cost				- / -	28 / 59.929	88 / 166.130	120 / 213.172	- / -	120 / 213.172

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

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

Justification:
 FY 2023 Base procurement dollars in the amount of \$213.172M supports the production of 120 Early Operational Capability (EOC) PrSM missiles with Launch Pod Missile Containers (LPMC).
 Funding increase from FY 2022 to FY 2023 due to increase in quantities to be procured.
 The current Army Acquisition Objective (AAO) is 3,986 PrSM missiles.
 FY21-24 procurement quantities support a PrSM EOC fielded capability under an Urgent Materiel Release (UMR) beginning in FY 2023. The UMR fielding is necessary to close the capability gap between the current capability and near-peer missile capabilities before the program transitions to Full Rate Production (FRP). On 3 FEB 2021 Army Futures Command, Commanding General signed a Directed Requirement for initial quantities of PrSM EOC, and on 4 JUN 2021, the Joint Requirements Oversight Council (JROC) validated the PrSM Capability Development Document (CDD). FY21-24 MIPA funds will initially support an EOC and then transition to Full Rate Production and achieve Initial Operational Capability (IOC) in FY 2025.
 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.
 This program supports the Long Range Precision Fires (LRPF) Cross Functional Team (CFT).

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Exhibit P-5, Cost Analysis: PB 2023 Army													Date: April 2022					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10						P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM)						Item Number / Title [DODIC]: C29850 / PrSM Baseline						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO		FY 2023 Total	
Procurement Quantity (<i>Units in Each</i>)				-		28			88			120			-		120	
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-		59.929			166.130			213.172			-		213.172	
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-			-			-			-		-	
Net Procurement (P-1) (<i>\$ in Millions</i>)				-		59.929			166.130			213.172			-		213.172	
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-			-			-			-		-	
Total Obligation Authority (<i>\$ in Millions</i>)				-		59.929			166.130			213.172			-		213.172	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (<i>\$ in Millions</i>)				-		-			-			-			-		-	
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)				-		2,140.321			1,887.841			1,776.433			-		1,776.433	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																		
Recurring Production ^(†)	-	-	-	1,837.929	28	51.462	1,613.398	88	141.979	1,571.742	120	188.609	-	-	-	1,571.742	120	188.609
Engineering Changes	-	-	-	-	-	2.216	-	-	6.245	-	-	2.733	-	-	-	-	-	2.733
Subtotal: Recurring Cost	-	-	-	-	-	53.678	-	-	148.224	-	-	191.342	-	-	-	-	-	191.342
Non Recurring Cost																		
Non-Recurring Production	-	-	-	-	-	3.385	-	-	8.729	-	-	10.827	-	-	-	-	-	10.827
Subtotal: Non Recurring Cost	-	-	-	-	-	3.385	-	-	8.729	-	-	10.827	-	-	-	-	-	10.827
Subtotal: Flyaway Cost	-	-	-	-	-	57.063	-	-	156.953	-	-	202.169	-	-	-	-	-	202.169
Support - Common Support Equipment Cost																		
Support and Handling Equipment	-	-	-	-	-	0.792	-	-	2.192	-	-	2.865	-	-	-	-	-	2.865
Subtotal: Support - Common Support Equipment Cost	-	-	-	-	-	0.792	-	-	2.192	-	-	2.865	-	-	-	-	-	2.865
Support - Data Cost																		
Technical Publications	-	-	-	-	-	0.572	-	-	1.583	-	-	2.069	-	-	-	-	-	2.069
Subtotal: Support - Data Cost	-	-	-	-	-	0.572	-	-	1.583	-	-	2.069	-	-	-	-	-	2.069
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	-	-	-	0.798	-	-	0.813	-	-	0.829	-	-	-	-	-	0.829

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM)	Item Number / Title [DODIC]: C29850 / PrSM Baseline

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	0.798	-	-	0.813	-	-	0.829	-	-	-	-	-	0.829
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	2.640	-	-	2.693	-	-	-	-	-	2.693
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	2.640	-	-	2.693	-	-	-	-	-	2.693
Support - Training Cost																		
Services	-	-	-	-	-	0.704	-	-	1.949	-	-	2.547	-	-	-	-	-	2.547
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	0.704	-	-	1.949	-	-	2.547	-	-	-	-	-	2.547
Gross/Weapon System Cost	-	-	-	2,140.321	28	59.929	1,887.841	88	166.130	1,776.433	120	213.172	-	-	-	1,776.433	120	213.172

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	28	88	120	-	120
	Total Obligation Authority	59.929	166.130	213.172	-	213.172
Total: Secondary Distribution	Quantity	28	88	120	-	120
	Total Obligation Authority	59.929	166.130	213.172	-	213.172

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM)	Item Number / Title [DODIC]: C29850 / PrSM Baseline
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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
Recurring Production ^(†)		2021	Lockheed Martin / M.&F.C. Sys. / Dallas, TX	SS / FPIF	Aviation and Missile Command	Sep 2021	Jul 2023	28	1,837.929	N		Feb 2021
Recurring Production ^(†)		2022	Lockheed Martin / M.&F.C. Sys. / Dallas, TX	SS / FFP	Aviation and Missile Command	May 2022	Jan 2024	88	1,613.398	N		Feb 2022
Recurring Production ^(†)		2023	Lockheed Martin / M.&F.C. Sys. / Dallas, TX	SS / FFP	Aviation and Missile Command	Jun 2023	Jan 2025	120	1,571.742	N		Jul 2022

^(†) indicates the presence of a P-21

Remarks:

The FY 2021 Lockheed Martin EOC-1 and EOC-2 contracts were awarded as an option on the Engineering and Manufacturing Development (EMD) contract.

The FY 2023 Lockheed Martin EOC-3 and EOC-4 contracts will be awarded as a separate IDIQ effort.

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM)	Item Number / Title [DODIC]: C29850 / PrSM Baseline
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022													
							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	
Recurring Production																																
	1	2021	ARMY	28	0	28													A	-	-	-	-	-	-	-	-	-	-	28		
	1	2022	ARMY	88	0	88																						A	-	-	-	88
	1	2023	ARMY	120	0	120																									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		

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 **P-1 Line Item Number / Title:** 8540C29600 / PRECISION STRIKE MISSILE (PRSM) **Item Number / Title [DODIC]:** C29850 / PrSM Baseline

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T O 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024													
							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	
Recurring Production																																
1		2021	ARMY	28	0	28	-	-	-	-	-	-	-	-	-	-	2	4	4	6	6	6								0		
1		2022	ARMY	88	0	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	8	8	8	8	8	24
1		2023	ARMY	120	0	120											A	-	-	-	-	-	-	-	-	-	-	-	-	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		

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM)	Item Number / Title [DODIC]: C29850 / PrSM Baseline
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025														Fiscal Year 2026										BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025														Calendar Year 2026										
							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
Recurring Production																															
1		2021	ARMY	28	28	0																							0		
1		2022	ARMY	88	64	24	8	8	8																				0		
1		2023	ARMY	120	0	120	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10								0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2023 Army	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM)	Item Number / Title [DODIC]: C29850 / PrSM Baseline
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - M.&F.C. Sys. / Dallas, TX	40	120	120	0	8	18	26	0	8	18	26

"A" in the Delivery Schedule indicates the Contract Award Date.

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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

P-1 Line Item Number / Title:
8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I

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

Line Item MDAP/MAIS Code: 473

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	24	52	76	76	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	40.623	62.461	19.053	18.924	-	18.924	386.383	670.667	712.994	722.152	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	31.286	-	-	-	-	-	-	-	-	-	-	31.286
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.337	62.461	19.053	18.924	-	18.924	386.383	670.667	712.994	722.152	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	31.286	-	-	-	-	-	-	-	-	-	-	31.286
Total Obligation Authority (<i>\$ in Millions</i>)	40.623	62.461	19.053	18.924	-	18.924	386.383	670.667	712.994	722.152	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>)	-	-	-	-	-	-	16,099.292	12,897.442	9,381.500	9,502.000	Continuing	Continuing

Description:

This funding line is directly aligned to the Army Air and Missile Defense Modernization Priority.

The Indirect Fire Protection Capability Increment 2 (IFPC Inc 2) will provide a ground-based weapon system designed to acquire, track, engage, and defeat Cruise Missiles (CM), Unmanned Aircraft Systems (UAS), and Rocket, Artillery, and Mortar (RAM) threats. The IFPC Inc 2 system consists of a launcher and interceptor integrated with the Army Integrated Air and Missile Defense (AIAMD) open systems architecture, IAMD Battle Command System (IBCS), and the Sentinel sensor to support the Threshold CM and UAS defeat mission. The Objective counter-RAM mission employs both alternative kinetic and non-kinetic defeat solutions.

In Fiscal Year (FY) 2018, the Army evaluated alternative strategies to address an Army interim CM defense (CMD) capability at critical strategic fixed site locations while continuing the development of an IFPC capability. IFPC's two Interim CMD (Iron Dome Defense System - Army (IDDS-A)) batteries were delivered to the Army in FY 2021 to prove out their readiness for deployment. Initial Army direction is to have one battery deployed OCONUS and the other battery stationed CONUS for rapid deployment, as needed.

Concurrently, the Army is pursuing a Competitive strategy with Industry participating in an FY 2021 "Shoot Off" demonstration using Industries' proposed launcher and missile solutions integrated with the Army's IBSC and Sentinel radar. The Army awarded a fixed price Other Transaction Authority (OTA) agreement to Dynetics, Inc. on 24 September, 2021 to deliver the Enduring IFPC Inc 2 prototype solution, provide residual operational capability in FY 2023, then transition into procurement and field by FY 2026.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	24	52	76	76
	Total Obligation Authority	62.461	19.053	18.924	-	18.924	386.383	670.667	712.994	722.152
Total: Secondary Distribution	Quantity	-	-	-	-	-	24	52	76	76
	Total Obligation Authority	62.461	19.053	18.924	-	18.924	386.383	670.667	712.994	722.152

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System **P-1 Line Item Number / Title:** 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I

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

Line Item MDAP/MAIS Code: 473

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C62002 / IFPC INC 2-I BLOCK 1 SYSTEM				- / 40.623	- / 62.461	- / 19.053	- / 18.924	- / -	- / 18.924
P-40	Total Gross/Weapon System Cost				- / 40.623	- / 62.461	- / 19.053	- / 18.924	- / -	- / 18.924

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

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

Justification:

FY 2023 Base procurement dollars in the amount of \$18.924 million are designated for procurement of Integrated Logistics Support for the Interim CMD (IDDS-A) batteries.

In response to National Defense Authorization Act for 2019, the Army approved a Directed Requirement to initiate procurement of the Israeli Iron Dome Missile System for an Interim CMD capability on 9 Feb 2019. IFPC's two Interim CMD (Iron Dome Defense System - Army (IDDS-A) batteries were delivered to the Army in FY 2021 to prove out their readiness for deployment. Initial Army direction is to have one battery deployed OCONUS and the other battery stationed CONUS for rapid deployment, as needed. The Army will continue to provide interim Integrated Logistical Support for these assets.

Concurrently, the Army will integrate an enduring IFPC capability of a launcher and interceptor leveraging the Army Integrated Air and Missile Defense (AIAMD) open systems architecture and IAMD Battle Command System (IBCS) as the Fire Control component, and US sensor (Sentinel) with initial system procurements starting in FY 2024 for fielding in FY 2026.

Funding decrease from FY 2022 to FY 2023 due to the reduction of Integrated Logistical Support for the Interim CMD (IDDS-A) systems.

This program supports the Air and Missile Defense Cross Functional Team (CFT).

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10	P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I	Item Number / Title [DODIC]: C62002 / IFPC INC 2-I BLOCK 1 SYSTEM

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		40.623	62.461	19.053	18.924	-	18.924
Less PY Advance Procurement <i>(\$ in Millions)</i>		31.286	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>		9.337	62.461	19.053	18.924	-	18.924
Plus CY Advance Procurement <i>(\$ in Millions)</i>		31.286	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		40.623	62.461	19.053	18.924	-	18.924
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>		-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
TAMIR Missiles and Associated Magazines (Reload - 120 EO / 120 EM)	-	-	-	180.763	240	43.383	-	-	-	-	-	-	-	-	-	-	-	-
TAMIR Missiles and Associated Magazines (Training - EM)	188.525	40	7.541	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interim CMD (IDDS-A) Battle Management Center (BMC) Server Replacement	898.000	2	1.796	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interim CMD (IDDS-A) - ATR realigned FY2019 Advanced Procurement funding to Base to Procure IDDS-A	-	-	31.286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	40.623	-	-	43.383	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	40.623	-	-	43.383	-	-	-	-	-	-	-	-	-	-	-	-
Support - Logistics Cost																		
Integrated Logistics Support	-	-	-	-	-	19.078	-	-	19.053	-	-	18.924	-	-	-	-	-	18.924

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10		P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Item Number / Title [DODIC]: C62002 / IFPC INC 2-I BLOCK 1 SYSTEM		

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Logistics Cost</i>	-	-	-	-	-	19.078	-	-	19.053	-	-	18.924	-	-	-	-	-	18.924
Gross/Weapon System Cost	-	-	40.623	-	-	62.461	-	-	19.053	-	-	18.924	-	-	-	-	-	18.924

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	62.461	19.053	18.924	-	18.924
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	62.461	19.053	18.924	-	18.924

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity:
2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System

P-1 Line Item Number / Title:
1338C70000 / Hellfire Sys Summary

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203802A, 0210109A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	81,442	3,572	920	752	-	752	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5,055.987	327.490	115.431	111.294	-	111.294	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5,055.987	327.490	115.431	111.294	-	111.294	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5,055.987	327.490	115.431	111.294	-	111.294	-	-	-	-	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>)	62.081	91.683	125.468	147.997	-	147.997	-	-	-	-	Continuing	Continuing

Description:

The HELLFIRE II and Longbow family of air-to-ground missiles (all variants) provide attack helicopters and unmanned aircraft systems (UAS) with point-target precision strike capability to defeat heavy, advanced armor, individual hard point and non-traditional targets. HELLFIRE II Missiles use a semi-active laser terminal guidance and are the primary armaments of the AH-64 Apache, 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 family of missiles replaces all other HELLFIRE II missile configurations (K/N/M/P) except HELLFIRE Longbow. HELLFIRE II procurement funding supports the entire HELLFIRE II and HELLFIRE Longbow systems to include resolution of obsolescence, end-of-life buys, safety, insensitive munitions, reliability, weapon integration activities, test sets, engineering changes, facilitization, production ramp-up activities and production issues. This missile is compatible on all current force UAS and rotary wing platforms.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	3,572	920	752	-	752	-	-	-	-
	Total Obligation Authority	327.490	115.431	111.294	-	111.294	-	-	-	-
Total: Secondary Distribution	Quantity	3,572	920	752	-	752	-	-	-	-
	Total Obligation Authority	327.490	115.431	111.294	-	111.294	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System	P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203802A, 0210109A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)	P-5a, P-21			81,442 / 5,055.987	3,572 / 327.490	920 / 115.431	752 / 111.294	- / -	752 / 111.294
P-40	Total Gross/Weapon System Cost				81,442 / 5,055.987	3,572 / 327.490	920 / 115.431	752 / 111.294	- / -	752 / 111.294

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

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

Justification:
 FY 2023 Base procurement dollars in the amount of \$111.294 million supports the procurement of 796 HELLFIRE II missiles, of which \$94.667 million is for combat expenses in support of Operation Enduring Sentinel (BBES) and \$16.617 million is for combat expenses in support of Operation Inherent Resolve (BBIR). The Project Office is resourced to procure additional missiles in FY23, increasing from 752, as reflected in the P-40, to 796.

Funding decrease from FY 2022 to FY 2023 is due to reduced replenishment requirement.

The Army intends to convert any price advantage created through contract negotiations, other service procurement and/or Foreign Military sales (FMS) to increase the Army procurement of HELLFIRE II missiles.

HELLFIRE Product Office is the Procuring Agency for all Services.

HELLFIRE II is reliant on other services and FMS to meet the Minimum Sustainment Rate (MSR) of 1200 missiles.

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 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20		P-1 Line Item Number / Title: 1338C70000 / 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:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	81,442	3,572	920	752	-	752
Gross/Weapon System Cost (\$ in Millions)	5,055.987	327.490	115.431	111.294	-	111.294
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5,055.987	327.490	115.431	111.294	-	111.294
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,055.987	327.490	115.431	111.294	-	111.294

(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)	62.081	91.683	125.468	147.997	-	147.997

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 ^(†)	47.980	81,625	3,916.403	76.461	3,518	268.990	88.705	920	81.609	103.666	796	82.518	-	-	-	103.666	796	82.518
Engineering Services	-	-	516.228	-	-	29.387	-	-	21.064	-	-	2.657	-	-	-	-	-	2.657
Acceptance Testing	-	-	90.835	-	-	1.499	-	-	1.528	-	-	1.558	-	-	-	-	-	1.558
Subtotal: Recurring Cost	-	-	4,523.466	-	-	299.876	-	-	104.201	-	-	86.733	-	-	-	-	-	86.733
Subtotal: Flyaway Cost	-	-	4,523.466	-	-	299.876	-	-	104.201	-	-	86.733	-	-	-	-	-	86.733
Support - Fielding Cost																		
Fielding	-	-	50.468	-	-	5.141	-	-	0.319	-	-	0.345	-	-	-	-	-	0.345
Subtotal: Support - Fielding Cost	-	-	50.468	-	-	5.141	-	-	0.319	-	-	0.345	-	-	-	-	-	0.345
Support - Production Engineering Cost																		
Production Engineering	-	-	219.905	-	-	15.502	-	-	7.466	-	-	13.418	-	-	-	-	-	13.418
Subtotal: Support - Production Engineering Cost	-	-	219.905	-	-	15.502	-	-	7.466	-	-	13.418	-	-	-	-	-	13.418
Support - Program Management Cost																		
Government Management	-	-	262.183	-	-	6.971	-	-	3.445	-	-	10.798	-	-	-	-	-	10.798
Subtotal: Support - Program Management Cost	-	-	262.183	-	-	6.971	-	-	3.445	-	-	10.798	-	-	-	-	-	10.798
Gross/Weapon System Cost	62.081	81,442	5,055.987	91.683	3,572	327.490	125.468	920	115.431	147.997	752	111.294	-	-	-	147.997	752	111.294

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20	P-1 Line Item Number / Title: 1338C70000 / 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:
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Remarks:
Fixed Price Incentive Fee (FPIF)

The production unit cost is based on all Services' base and Direct War and Enduring quantity requirements known at this time. Above quantities are Army only. Total quantities include procurement by US Army and FMS cases. Excess capacity will determine future FMS quantity availability. All procurement of Hellfire II AGM-114R missiles are reflected on the P21.

Exhibit P-5: While the Laser HELLFIRE overall Program Management Administration (PMA) and Production Engineering Support (PES) costs maintain a consistent level of effort each year, these costs are allocated to all services on a pro-rata share of quantities procured. This can result in a year-to-year fluctuation of the Army's share.

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

Fielding costs in FY22 and prior were calculated on a flat rate per AUR. Fielding costs in FY23 and beyond are based on first-destination delivery costs of AUR placed on contract in the prior two years.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	3,572	920	752	-	752
	Total Obligation Authority	327.490	115.431	111.294	-	111.294
Total:	Quantity	3,572	920	752	-	752
Secondary Distribution	Total Obligation Authority	327.490	115.431	111.294	-	111.294

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army							Date: April 2022					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20			P-1 Line Item Number / Title: 1338C70000 / 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 <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
All-up Rounds ^(†)	✓	2019	Lockheed Missile and Fire Ctrl / Orlando	SS / FPIF	Redstone Arsenal, AL	Apr 2019	Oct 2021	2,034	78.228	Y		Dec 2016
All-up Rounds ^(†)		2020	Lockheed Missile and Fire Ctrl / Orlando	SS / FPIF	Redstone Arsenal, AL	Mar 2021	Oct 2022	5,112	71.444	Y		Dec 2016
All-up Rounds ^(†)		2021	Lockheed Missile and Fire Ctrl / Orlando	SS / FPIF	Redstone Arsenal, AL	May 2021	Oct 2023	3,518	76.461	Y		Dec 2016
All-up Rounds ^(†)		2022	Lockheed Missile and Fire Ctrl / Orlando	SS / FPIF	Redstone Arsenal, AL	Sep 2022	Oct 2024	920	88.705	Y		Dec 2020
All-up Rounds ^(†)		2023	Lockheed Missile and Fire Ctrl / Orlando	SS / FPIF	Redstone Arsenal, AL	Mar 2023	Oct 2025	796	103.666	Y		Dec 2020

^(†) indicates the presence of a P-21

Remarks:
Fixed Price Incentive Fee (FPIF)

The production unit cost is based on all Services' quantity requirements known at this time. Above quantities are Army only. Total quantities include procurement by US Army and FMS cases. Excess capacity will determine future FMS quantity availability. All procurement of Hellfire II AGM-114R missiles are reflected on the P21.

Exhibit P-5: While the Laser HELLFIRE overall Program Management Administration (PMA) and Production Engineering Support (PES) costs maintain a consistent level of effort each year, these costs are allocated to all services on a pro-rata share of quantities procured. This can result in a year-to-year fluctuation of the Army's share.

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

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Exhibit P-21, Production Schedule: PB 2023 Army															Date: April 2022														
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20										P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary										Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2021													Fiscal Year 2022													B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022																
							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: 74479																																				
✓	1	2019	ARMY	2,034	0	2,034	-	-	-	-	-	-	-	-	-	-	-	-	170	170	170	170	170	170	170	169	169	169	169	169	169	0				
	1	2020	AF (†)	3,859	0	3,859																											3,859			
	1	2020	ARMY	5,112	0	5,112																												5,112		
	1	2020	FMS (†)	681	0	681																												681		
	1	2020	Total	9,652	0	9,652																												9,652		
	1	2021	AF (†)	2,687	0	2,687														A -														2,687		
	1	2021	ARMY	3,518	0	3,518														A -															3,518	
	1	2021	FMS (†)	2,541	0	2,541														A -															2,541	
	1	2021	Total	8,746	0	8,746																												8,746		
	1	2022	AF (†)	1,175	0	1,175																												A -	1,175	
	1	2022	ARMY	920	0	920																													A -	920
	1	2022	FMS (†)	523	0	523																													A -	523
	1	2022	Total	2,618	0	2,618																													-	2,618
	1	2023	ARMY	796	0	796																														796
	1	2023	FMS (†)	1,154	0	1,154																														1,154
	1	2023	Total Base	1,868	0	1,868																														1,868
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2023 Army															Date: April 2022														
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20										P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary										Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 2	BAL D U E A S O F 1 O C T	Calendar Year 2023												Calendar Year 2024												
							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: 74479																															
✓	1	2019	ARMY	2,034	2,034	0																							0		
	1	2020	AF (+)	3,859	0	3,859	322	322	322	322	322	322	322	321	321	321	321												0		
	1	2020	ARMY	5,112	0	5,112	426	426	426	426	426	426	426	426	426	426	426												0		
	1	2020	FMS (+)	681	0	681	57	57	57	57	57	57	57	57	57	56	56												0		
	1	2020	Total	9,652	0	9,652	805	805	805	805	805	805	805	804	804	803	803	803	-	-	-	-	-	-	-	-	-	-	0		
	1	2021	AF (+)	2,687	0	2,687	-	-	-	-	-	-	-	-	-	-	-	224	224	224	224	224	224	224	224	224	224	223	0		
	1	2021	ARMY	3,518	0	3,518	-	-	-	-	-	-	-	-	-	-	-	294	294	294	294	294	294	294	294	294	294	284	0		
	1	2021	FMS (+)	2,541	0	2,541	-	-	-	-	-	-	-	-	-	-	-	212	212	212	212	212	212	212	212	212	212	209	0		
	1	2021	Total	8,746	0	8,746	-	-	-	-	-	-	-	-	-	-	-	730	730	730	730	730	730	730	730	730	716	0			
	1	2022	AF (+)	1,175	0	1,175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,175			
	1	2022	ARMY	920	0	920	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	920			
	1	2022	FMS (+)	523	0	523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	523			
	1	2022	Total	2,618	0	2,618	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,618			
	1	2023	ARMY	796	0	796																						796			
	1	2023	FMS (+)	1,154	0	1,154																						1,154			
	1	2023	Total Base	1,868	0	1,868																						1,868			

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Exhibit P-21, Production Schedule: PB 2023 Army															Date: April 2022														
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20										P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary										Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025														Fiscal Year 2026														BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025														Calendar Year 2026														
							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: 74479																																			
✓	1	2019	ARMY	2,034	2,034	0																													0
	1	2020	AF (†)	3,859	3,859	0																													0
	1	2020	ARMY	5,112	5,112	0																													0
	1	2020	FMS (†)	681	681	0																													0
	1	2020	Total	9,652	9,652	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
	1	2021	AF (†)	2,687	2,687	0																													0
	1	2021	ARMY	3,518	3,518	0																													0
	1	2021	FMS (†)	2,541	2,541	0																													0
	1	2021	Total	8,746	8,746	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
	1	2022	AF (†)	1,175	0	1,175	98	98	98	98	98	98	98	98	98	97																			0
	1	2022	ARMY	920	0	920	76	76	76	76	77	77	77	77	77	77																			0
	1	2022	FMS (†)	523	0	523	44	44	44	44	44	44	44	44	44	39																			0
	1	2022	Total	2,618	0	2,618	218	218	218	218	219	219	219	219	219	219	213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
	1	2023	ARMY	796	0	796	-	-	-	-	-	-	-	-	-	-																			82
	1	2023	FMS (†)	1,154	0	1,154	-	-	-	-	-	-	-	-	-	-																			0
	1	2023	Total Base	1,868	0	1,868	-	-	-	-	-	-	-	-	-	-	155	155	155	155	155	155	155	155	155	155	155	155	155	155	163	0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20		P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary
Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Missile and Fire Ctrl - Orlando	1,200	6,800	6,800	5	12	24	36	5	12	24	36

Remarks:
 While production lead time is 24 months, the ordering window for contract awards may extend up to six months after award. Production does not begin until the ordering window is closed.
 Production contracts include a clause that precludes concurrent delivery of successive contract or contract option awards.

(†) 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).

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System
P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0605450A

Line Item MDAP/MAIS Code: 355

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	2,758	537	359	713	-	713	437	453	739	671	13,609	20,276
Gross/Weapon System Cost (<i>\$ in Millions</i>)	768.022	196.548	147.177	216.030	-	216.030	160.198	165.424	200.762	184.198	5,021.811	7,060.170
Less PY Advance Procurement (<i>\$ in Millions</i>)	64.456	-	-	-	-	-	-	-	-	-	-	64.456
Net Procurement (P-1) (<i>\$ in Millions</i>)	703.566	196.548	147.177	216.030	-	216.030	160.198	165.424	200.762	184.198	5,021.811	6,995.714
Plus CY Advance Procurement (<i>\$ in Millions</i>)	64.456	-	-	-	-	-	-	-	-	-	-	64.456
Total Obligation Authority (<i>\$ in Millions</i>)	768.022	196.548	147.177	216.030	-	216.030	160.198	165.424	200.762	184.198	5,021.811	7,060.170

(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>)	278.471	366.011	409.964	302.987	-	302.987	366.586	365.174	271.667	274.513	369.007	348.203

Description:

The JAGM program is an Army-led, Acquisition Category (ACAT) 1C Major Defense Acquisition Program (MDAP) with joint interest with the Navy, Marine Corps, and Air Force. JAGM is the next generation, multi-mode, air-to-ground munition replacing legacy HELLFIRE (HF) and HF Longbow munitions. JAGM will be used for destruction of high-value land and maritime targets, moving or stationary, and is capable of being fired from any platform currently firing HF from a US Army-issued M299 launcher. JAGM utilizes a HF back-end (propulsion, warhead and control system) with a new-design, Millimeter Wave (MMW) and Semi-Active Laser (SAL), multi-mode guidance section. The multi-mode capability provides fire-and-forget and precision-point targeting as well as unique, blended modes of each, for improved capability over legacy munitions.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	537	359	713	-	713	437	453	739	671
Total Obligation Authority	196.548	147.177	216.030	-	216.030	160.198	165.424	200.762	184.198
Total:									
Secondary Distribution									
Quantity	537	359	713	-	713	437	453	739	671
Total Obligation Authority	196.548	147.177	216.030	-	216.030	160.198	165.424	200.762	184.198

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System **P-1 Line Item Number / Title:** 2605C70302 / Joint Air-to-Ground MSLS (JAGM)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0605450A

Line Item MDAP/MAIS Code: 355

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C70302 / Joint Air-to-Ground MSLS (JAGM)	P-5a, P-21			2,758 / 768.022	537 / 196.548	359 / 147.177	713 / 216.030	- / -	713 / 216.030
P-40	Total Gross/Weapon System Cost				2,758 / 768.022	537 / 196.548	359 / 147.177	713 / 216.030	- / -	713 / 216.030

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

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

Justification:
 FY 2023 base procurement dollars in the amount of \$216.030M supports the procurement of 713 missiles, 25 Captive Air Training Missiles (CATM), Project Management Cost and Engineering Services funding.
 Funding increase from FY 2022 to FY 2023 is due to increased procurement of missiles.
 The Army intends to convert any price advantage created through contract negotiations, other service procurement, and Foreign Military Sales (FMS) to increase procurement of JAGM and address safety, reliability, affordability, producibility and obsolescence.
 The Air-to-Ground Missile Systems Product Office is the procurement agent for all services.
 The Army Acquisition Objective is 20,303.
 In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20	P-1 Line Item Number / Title: 2605C70302 / 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:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	2,758	537	359	713	-	713
Gross/Weapon System Cost (\$ in Millions)	768.022	196.548	147.177	216.030	-	216.030
Less PY Advance Procurement (\$ in Millions)	64.456	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	703.566	196.548	147.177	216.030	-	216.030
Plus CY Advance Procurement (\$ in Millions)	64.456	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	768.022	196.548	147.177	216.030	-	216.030

(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)	278.471	366.011	409.964	302.987	-	302.987

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
All Up Rounds (AUR) ^(†)	196.623	2,487	489.001	209.320	537	112.405	243.028	359	87.247	225.376	713	160.693	-	-	-	225.376	713	160.693
Engineering Services	-	-	65.186	-	-	21.132	-	-	14.471	-	-	11.680	-	-	-	-	-	11.680
Guidance Section Long Lead Items	-	-	38.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acceptance Testing	-	-	3.139	-	-	1.967	-	-	2.006	-	-	2.046	-	-	-	-	-	2.046
Subtotal: Recurring Cost	-	-	595.926	-	-	135.504	-	-	103.724	-	-	174.419	-	-	-	-	-	174.419
Non Recurring Cost																		
HELLFIRE Backend Long Lead Items	-	-	25.856	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tooling and Test Equipment	-	-	13.831	-	-	5.986	-	-	4.412	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	39.687	-	-	5.986	-	-	4.412	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	635.613	-	-	141.490	-	-	108.136	-	-	174.419	-	-	-	-	-	174.419
Support - Fielding Cost																		
Fielding	-	-	1.796	-	-	0.902	-	-	0.261	-	-	0.266	-	-	-	-	-	0.266
Subtotal: Support - Fielding Cost	-	-	1.796	-	-	0.902	-	-	0.261	-	-	0.266	-	-	-	-	-	0.266
Support - Initial Spares and Repair Parts Cost																		

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20	P-1 Line Item Number / Title: 2605C70302 / 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:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
Initial Spares and Repair Parts	-	-	1.926	-	-	1.221	-	-	1.981	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	1.926	-	-	1.221	-	-	1.981	-	-	-	-	-	-	-	-	-
Support - Non-Recurring Support Cost																		
Facilitization	-	-	39.732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Non-Recurring Support Cost</i>	-	-	39.732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	43.961	-	-	21.024	-	-	16.228	-	-	18.746	-	-	-	-	-	18.746
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	43.961	-	-	21.024	-	-	16.228	-	-	18.746	-	-	-	-	-	18.746
Support - Program Management Cost																		
Government Management	-	-	33.994	-	-	14.583	-	-	14.123	-	-	12.970	-	-	-	-	-	12.970
<i>Subtotal: Support - Program Management Cost</i>	-	-	33.994	-	-	14.583	-	-	14.123	-	-	12.970	-	-	-	-	-	12.970
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	11.000	-	-	17.328	-	-	5.035	-	-	5.794	-	-	-	-	-	5.794
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	11.000	-	-	17.328	-	-	5.035	-	-	5.794	-	-	-	-	-	5.794
Support - Training Cost																		
Equipment	-	-	-	-	-	-	-	-	1.413	-	-	3.835	-	-	-	-	-	3.835
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	1.413	-	-	3.835	-	-	-	-	-	3.835
Gross/Weapon System Cost	278.471	2,758	768.022	366.011	537	196.548	409.964	359	147.177	302.987	713	216.030	-	-	-	302.987	713	216.030

Remarks:
HELLFIRE production impacts the cost of JAGM AUR.

Training cost supports procurement of 25 Captive Air Training Missiles (CATM).

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20	P-1 Line Item Number / Title: 2605C70302 / 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:** _____

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	537	359	713	-	713
	Total Obligation Authority	196.548	147.177	216.030	-	216.030
Total:	Quantity	537	359	713	-	713
Secondary Distribution	Total Obligation Authority	196.548	147.177	216.030	-	216.030

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army							Date: April 2022					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20			P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM)				Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
All Up Rounds (AUR) ^(†)		2019	Lockheed Martin / Orlando	C / FPIF	Redstone Arsenal, AL	Nov 2019	Mar 2022	721	223.569	Y		Aug 2018
All Up Rounds (AUR) ^(†)		2020	Lockheed Martin / Orlando	SS / FPIF	Redstone Arsenal, AL	Mar 2021	May 2023	494	212.043	Y		Jun 2019
All Up Rounds (AUR) ^(†)		2021	Lockheed Martin / Orlando	SS / FPIF	Redstone Arsenal, AL	May 2021	Mar 2024	537	209.320	Y		Jun 2019
All Up Rounds (AUR) ^(†)		2022	Lockheed Martin / Orlando	SS / FPIF	Redstone Arsenal, AL	Sep 2022	Oct 2024	359	243.028	Y		Sep 2020
All Up Rounds (AUR) ^(†)		2023	Lockheed Martin / Orlando	SS / FPIF	Redstone Arsenal, AL	Mar 2023	Oct 2025	713	225.376	Y		Sep 2020

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2023 Army															Date: April 2022														
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20										P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM)										Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2020															Fiscal Year 2021															B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 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							
All Up Rounds (AUR)																																					
Prior Years Deliveries: 1272																																					
1	2019	ARMY		721	0	721		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	721				
1	2019	NAVY ^(‡)		75	0	75		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75					
1	2019	Total		796	0	796		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	796					
1	2020	AF ^(‡)		43	0	43																										43					
1	2020	ARMY		494	0	494																										494					
1	2020	FMS ^(‡)		1	0	1																										1					
1	2020	NAVY ^(‡)		320	0	320																										320					
1	2020	Total		858	0	858																										858					
1	2021	AF ^(‡)		2	0	2																										2					
1	2021	ARMY		537	0	537																										537					
1	2021	NAVY ^(‡)		161	0	161																										161					
1	2021	Total		700	0	700																										700					
1	2022	ARMY		359	0	359																										359					
1	2022	NAVY ^(‡)		164	0	164																										164					
1	2022	Total		523	0	523																										523					
1	2023	ARMY		713	0	713																										713					
1	2023	NAVY ^(‡)		293	0	293																										293					
1	2023	Total		1,006	0	1,006																										1,006					
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2023 Army																							Date: April 2022									
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20										P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM)										Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM)												
Cost Elements (Units in Each)					Fiscal Year 2022															Fiscal Year 2023										BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022															Calendar Year 2023										
							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 (AUR)																																
Prior Years Deliveries: 1272																																
1	2019	ARMY	721	0	721	-	-	-	-	-	43	44	44	44	43	44	69	69	68	94	94	65							0			
1	2019	NAVY ^(‡)	75	0	75	-	-	-	-	-	7	6	6	6	7	6	6	6	7	6	6	6							0			
1	2019	Total	796	0	796	-	-	-	-	-	50	50	50	50	50	50	75	75	75	100	100	71	-	-	-	-	-	0				
1	2020	AF ^(‡)	43	0	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	-	0				
1	2020	ARMY	494	0	494	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	66	68	68	200			
1	2020	FMS ^(‡)	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1				
1	2020	NAVY ^(‡)	320	0	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	34	32	157			
1	2020	Total	858	0	858	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	100	100	358			
1	2021	AF ^(‡)	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2				
1	2021	ARMY	537	0	537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	537				
1	2021	NAVY ^(‡)	161	0	161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161				
1	2021	Total	700	0	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700				
1	2022	ARMY	359	0	359												A -	-	-	-	-	-	-	-	-	-	-	-	359			
1	2022	NAVY ^(‡)	164	0	164												A -	-	-	-	-	-	-	-	-	-	-	-	164			
1	2022	Total	523	0	523												-	-	-	-	-	-	-	-	-	-	-	523				
1	2023	ARMY	713	0	713																					A -	-	-	713			
1	2023	NAVY ^(‡)	293	0	293																						A -	-	293			
1	2023	Total	1,006	0	1,006																						-	1,006				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army															Date: April 2022									
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20										P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM)										Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM)				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024													Fiscal Year 2025													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							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 (AUR)																																	
Prior Years Deliveries: 1272																																	
1	2019	ARMY		721	721	0																							0				
1	2019	NAVY ^(‡)		75	75	0																							0				
1	2019	Total		796	796	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2020	AF ^(‡)		43	43	0																							0				
1	2020	ARMY		494	294	200	68	68	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
1	2020	FMS ^(‡)		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
1	2020	NAVY ^(‡)		320	163	157	32	32	32	32	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
1	2020	Total		858	500	358	100	100	96	32	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
1	2021	AF ^(‡)		2	0	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
1	2021	ARMY		537	0	537	-	-	-	-	-	47	59	59	109	109	109	45										0					
1	2021	NAVY ^(‡)		161	0	161	-	-	-	-	-	61	50	50	-	-	-	-										0					
1	2021	Total		700	0	700	-	-	-	-	-	110	109	109	109	109	109	45	-	-	-	-	-	-	-	-	-	0					
1	2022	ARMY		359	0	359	-	-	-	-	-	-	-	-	-	-	-	-	33	33	32	32	32	32	32	32	32	5	0				
1	2022	NAVY ^(‡)		164	0	164	-	-	-	-	-	-	-	-	-	-	-	-	14	14	14	14	14	14	14	14	13	13	13	13	0		
1	2022	Total		523	0	523	-	-	-	-	-	-	-	-	-	-	-	-	47	47	46	46	46	46	46	46	45	45	45	18	0		
1	2023	ARMY		713	0	713	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	713				
1	2023	NAVY ^(‡)		293	0	293	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	293				
1	2023	Total		1,006	0	1,006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,006				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army															Date: April 2022														
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20										P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM)										Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2026															Fiscal Year 2027															BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026															Calendar Year 2027															
							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 (AUR)																																					
Prior Years Deliveries: 1272																																					
1	2019	ARMY		721	721	0																													0		
1	2019	NAVY ^(‡)		75	75	0																													0		
1	2019	Total		796	796	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0			
1	2020	AF ^(‡)		43	43	0																													0		
1	2020	ARMY		494	494	0																													0		
1	2020	FMS ^(‡)		1	1	0																													0		
1	2020	NAVY ^(‡)		320	320	0																													0		
1	2020	Total		858	858	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1	2021	AF ^(‡)		2	2	0																													0		
1	2021	ARMY		537	537	0																													0		
1	2021	NAVY ^(‡)		161	161	0																													0		
1	2021	Total		700	700	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1	2022	ARMY		359	359	0																													0		
1	2022	NAVY ^(‡)		164	164	0																													0		
1	2022	Total		523	523	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2023	ARMY		713	0	713	59	59	59	59	59	58	60	60	60	60	60	60	60																0		
1	2023	NAVY ^(‡)		293	0	293	24	24	25	25	25	25	25	24	24	24	24	24	24															0			
1	2023	Total		1,006	0	1,006	83	83	84	84	84	83	85	84	84	84	84	84	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20		P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM)
		Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Orlando	600	1,200	1,200	5	12	24	36	5	12	24	36

Remarks:

FY 2023 total quantities include Navy purchases.

While production lead time is 24 months, the ordering window for contract awards may extend up to six months after award. Production does not begin until the ordering window is closed.

Production contracts include a clause that precludes concurrent delivery of successive contract or contract option awards.

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity:
2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System

P-1 Line Item Number / Title:
2607C71300 / Long Range Precision Mmunition

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	153	236	-	-	-	-	-	-	-	-	389
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	38.107	44.744	-	-	-	-	-	-	-	-	82.851
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	38.107	44.744	-	-	-	-	-	-	-	-	82.851
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	38.107	44.744	-	-	-	-	-	-	-	-	82.851

(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>)	-	249.065	189.593	-	-	-	-	-	-	-	-	212.985

Description:

The LRPM will provide Army Aviation with improved and longer range weapons, sub-systems, and munitions that can rapidly respond in a combat environment improving the survivability of the warfighters and weapon systems in an anti-access/area denial (A2/AD) and positioning, navigation, and timing (PNT) denied environment. The ability to interoperate and coordinate with other weapon systems and munitions at long ranges and adapt to changing threats is a core concept of the Army Aviation Weapons Sub-Systems and Munitions (AAWSSM) program.

The Spike Non-line of Sight (NLOS) directed requirement will federate an existing production system to the Apache AH-64 as an interim solution that will provide longer stand-off ranges in an anti-access/area denial (A2/AD) environment until a more effective integrated Army Aviation Weapons Sub-Systems and Munitions (AAWSSM) LRPM solution can be developed.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	153	236	-	-	-	-	-	-	-
	Total Obligation Authority	38.107	44.744	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	153	236	-	-	-	-	-	-	-
	Total Obligation Authority	38.107	44.744	-	-	-	-	-	-	-

Justification:

LRPM-Interim (C71300) has no FY2023 funding request.

The Army intends to convert any price advantage created through contract negotiations and/or other service procurement to increase the Army procurement of Spike Non-Line of Sight (SPIKE NLOS) Missiles.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System **P-1 Line Item Number / Title:** 2611C72100 / LONG-RANGE HYPERSONIC WEAPON

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	249.285	-	249.285	134.048	552.256	523.215	442.044	-	1,900.848
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	-	249.285	-	249.285	134.048	552.256	523.215	442.044	-	1,900.848
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	249.285	-	249.285	134.048	552.256	523.215	442.044	-	1,900.848

(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 funding is directly aligned to the Army's Long Range Precision Fires Modernization Priority.

The Long Range Hypersonic Weapon (LRHW) system will provide the Army a strategic attack weapon system to defeat Anti Access/Area Denial (A2/AD) capabilities, suppress adversary Long Range Fires, and engage other high payoff/time critical targets. LRHW is common with other Department of Defense (DoD) hypersonic programs using the Common Hypersonic Glide Body (CHGB) and the Navy 34.5 inch booster. The LRHW system consists of the CHGB with the Navy 34.5 inch booster, a Battery Operations Center (BOC) for command and control (C2), and the Transporter Erector Launcher (TEL). Each TEL holds 2 canisterized rounds. Each LRHW Battery contains eight (8) All Up Rounds plus canister (AUR+C); one (1) Battery Operations Center (BOC); four (4) Transporter Erector Launchers (TELs); and Reload rounds and trailers. Additionally, the LRHW will use a modified version of an existing command and control (C2) network: Advanced Field Artillery Tactical Data System (AFATDS).

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	249.285	-	249.285	134.048	552.256	523.215	442.044
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	249.285	-	249.285	134.048	552.256	523.215	442.044

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System **P-1 Line Item Number / Title:** 2611C72100 / LONG-RANGE HYPERSONIC WEAPON

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C72111 / LONG-RANGE HYPERSONIC WEAPON (LRHW)				- / -	- / -	- / -	- / 249.285	- / -	- / 249.285
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 249.285	- / -	- / 249.285

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

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

Justification:

FY 2023 Base procurement dollars in the amount of \$249.285 million support the production of LRHW ground support equipment (i.e., one (1) BOC and four (4) TELs and support equipment) for fielding second battery NLT 4QFY25 and is primarily comprised of the following activities:

- Purchase LRHW GFE
- LRHW initial spares
- Funds production of Ground Support Equipment (GSE)

Provides for planning, manufacturing and integration efforts for the Battery Operations Center (BOC), Transporter Erector Launcher (TEL), Fielding and Transition efforts, as well as the overall Systems Integration and training for the All Up Round and Canister (AUR+C) for the LRHW program.

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Exhibit P-5, Cost Analysis: PB 2023 Army													Date: April 2022						
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20						P-1 Line Item Number / Title: 2611C72100 / LONG-RANGE HYPERSONIC WEAPON						Item Number / Title [DODIC]: C72111 / LONG-RANGE HYPERSONIC WEAPON (LRHW)							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total					
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-					
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-		-		-		249.285		-		249.285					
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Net Procurement (P-1) (<i>\$ in Millions</i>)				-		-		-		249.285		-		249.285					
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Total Obligation Authority (<i>\$ in Millions</i>)				-		-		-		249.285		-		249.285					
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																			
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-			
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)				-		-		-		-		-		-		-			
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																			
LRHW Ground Support Equipment (GSE) Production & Integration	-	-	-	-	-	-	-	-	-	249,285.000	1	249.285	-	-	-	249,285.000	1	249.285	
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	249.285	-	-	-	-	-	249.285	
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	249.285	-	-	-	-	-	249.285	
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	249.285	-	-	-	-	-	249.285	
Secondary Distribution						FY 2021			FY 2022			FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Army						Quantity			-			-		-		-			
						Total Obligation Authority			-			249.285		-		249.285			
Total:						Quantity			-			-		-		-			
Secondary Distribution						Total Obligation Authority			-			249.285		-		249.285			

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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:**
0648CC0007 / Javelin (AAWS-M) System Summary

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604611A

Line Item MDAP/MAIS Code: 280

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	33,234	768	365	582	-	582	651	725	849	816	-	37,990
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5,479.192	181.324	128.812	162.968	-	162.968	181.802	198.457	202.599	202.644	-	6,737.798
Less PY Advance Procurement (<i>\$ in Millions</i>)	100.622	-	-	-	-	-	-	-	-	-	-	100.622
Net Procurement (P-1) (<i>\$ in Millions</i>)	5,378.570	181.324	128.812	162.968	-	162.968	181.802	198.457	202.599	202.644	-	6,637.176
Plus CY Advance Procurement (<i>\$ in Millions</i>)	100.622	-	-	-	-	-	-	-	-	-	-	100.622
Total Obligation Authority (<i>\$ in Millions</i>)	5,479.192	181.324	128.812	162.968	-	162.968	181.802	198.457	202.599	202.644	-	6,737.798

(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>)	164.867	236.099	352.910	280.014	-	280.014	279.266	273.734	238.633	248.338	-	177.357

Description:

Javelin is a man-portable, fire-and-forget, medium-range missile with enhanced situational awareness and precision direct-fire effects to defeat armored vehicles, fortifications, and soft targets in a range of military operations. Javelin has a high kill rate against a variety of targets at extended ranges under day/night, battlefield obscurants, adverse weather and multiple counter-measure conditions. The system's soft launch feature permits firing from a fighting position or an enclosure. Javelin uses a modular design to allow the system to evolve to meet changing threats and requirements via both software and hardware upgrades. The system consists of a reusable Command Launch Unit (CLU) with a built-in-test (BIT), and a modular missile encased in a disposable launch tube assembly. The system also includes training devices for tactical training and classroom training. Javelin's fire-and-forget technology allows the gunner to fire and immediately take cover, to move to another fighting position, or to reload. The Javelin provides enhanced lethality through the use of a tandem multi-purpose warhead which will defeat all known armor threats. It is effective against both stationary and moving targets. This system also provides defensive capability against attacking/hovering helicopters. The CLU can also be used as a stand-alone surveillance and target acquisition asset. The Javelin weapon system is an Army-led, Acquisition Category (ACAT) IC Major Defense Acquisition Program (MDAP) that has joint interest with the U.S. Marine Corps, U.S. Navy, and U.S. Air Force.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	
Army										
	Quantity	768	365	582	-	582	651	725	849	816
	Total Obligation Authority	181.324	128.812	162.968	-	162.968	181.802	198.457	202.599	202.644
Total:	Quantity	768	365	582	-	582	651	725	849	816
Secondary Distribution	Total Obligation Authority	181.324	128.812	162.968	-	162.968	181.802	198.457	202.599	202.644

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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:**
0648CC0007 / Javelin (AAWS-M) System Summary

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604611A

Line Item MDAP/MAIS Code: 280

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	H06102 / JAVELIN (AAWS-M)	P-5a, P-21			33,234 / 5,479.192	763 / 165.354	279 / 84.618	379 / 99.846	- / -	379 / 99.846
P-5	H06103 / Javelin Lightweight Command Launch Unit (CLU)	P-5a, P-21			- / -	5 / 15.970	86 / 44.194	203 / 63.122	- / -	203 / 63.122
P-40	Total Gross/Weapon System Cost				33,234 / 5,479.192	768 / 181.324	365 / 128.812	582 / 162.968	- / -	582 / 162.968

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

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

Justification:
H06102 FY23 Base procurement dollars in the amount of \$99.846 million supports the production of 379 missiles.
H06103 FY23 Base procurement dollars in the amount of \$63.122 million supports the production of 203 Lightweight CLUs and associated training devices.

Funding increase from FY22 to FY23 is due to increased procurement of missiles and Lightweight CLUs.

The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to increase the Army procurement of Javelin missiles and/or Lightweight CLUs, and/or address safety, reliability, affordability, producibility, and/or obsolescence.

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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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30		P-1 Line Item Number / Title: 0648CC0007 / 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:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	33,234	763	279	379	-	379
Gross/Weapon System Cost (\$ in Millions)	5,479.192	165.354	84.618	99.846	-	99.846
Less PY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5,378.570	165.354	84.618	99.846	-	99.846
Plus CY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,479.192	165.354	84.618	99.846	-	99.846

(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)	164.867	216.716	303.290	263.446	-	263.446

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 ⁽¹⁾	108.222	32,814	3,551.197	166.292	763	126.881	192.771	279	53.783	197.884	379	74.998	-	-	-	197.884	379	74.998
Engineering Services	-	-	196.357	-	-	8.248	-	-	9.908	-	-	10.165	-	-	-	-	-	10.165
Acceptance Testing	-	-	60.266	-	-	1.161	-	-	1.666	-	-	1.699	-	-	-	-	-	1.699
CLU Retrofits	118.433	1,073	127.079	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Change Orders	-	-	1.008	-	-	0.101	-	-	-	-	-	-	-	-	-	-	-	-
Publications/Technical Data	-	-	0.078	-	-	0.079	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	3,935.985	-	-	136.470	-	-	65.357	-	-	86.862	-	-	-	-	-	86.862
Non Recurring Cost																		
Obsolescence and Cost Reduction	-	-	23.127	-	-	9.970	-	-	-	-	-	-	-	-	-	-	-	-
G-Model Production Facilitization	-	-	-	-	-	9.908	-	-	10.000	-	-	-	-	-	-	-	-	-
IM Compliance	-	-	-	-	-	-	-	-	-	-	-	3.538	-	-	-	-	-	3.538
Subtotal: Non Recurring Cost	-	-	23.127	-	-	19.878	-	-	10.000	-	-	3.538	-	-	-	-	-	3.538
Subtotal: Flyaway Cost	-	-	3,959.112	-	-	156.348	-	-	75.357	-	-	90.400	-	-	-	-	-	90.400
Support - Production Engineering Cost																		
Production Engineering	-	-	122.485	-	-	4.934	-	-	5.033	-	-	5.133	-	-	-	-	-	5.133
Subtotal: Support - Production Engineering Cost	-	-	122.485	-	-	4.934	-	-	5.033	-	-	5.133	-	-	-	-	-	5.133

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Exhibit P-5, Cost Analysis: PB 2023 Army												Date: April 2022					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30						P-1 Line Item Number / Title: 0648CC0007 / 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:					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
Support - Program Management Cost																		
Government Management	-	-	1,397.595	-	-	4.072	-	-	4.228	-	-	4.313	-	-	-	-	-	4.313
<i>Subtotal: Support - Program Management Cost</i>	-	-	1,397.595	-	-	4.072	-	-	4.228	-	-	4.313	-	-	-	-	-	4.313
Gross/Weapon System Cost	164.867	33,234	5,479.192	216.716	763	165.354	303.290	279	84.618	263.446	379	99.846	-	-	-	263.446	379	99.846

Remarks:

The unit cost of the missile in FY23 is based on a procurement quantity of 650, which is below the MSR quantity of 850. The Unit Cost increase from FY22 to FY23 is due to inflation.

Insensitive Munition (IM) Compliance is a multi-year engineering effort to comply with safety requirements for the missile propulsion unit against inadvertent initiation/detonation from external forces. Funding planned to start the effort in FY21 had to be used to address critical missile obsolescence issues.

Beginning in FY22, Engineering Change Orders and Publications/Technical Data costs are rolled into the Engineering Services cost element to better align with how the project office tracks actuals.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	763	279	379	-	379
	Total Obligation Authority	165.354	84.618	99.846	-	99.846
Total:	Quantity	763	279	379	-	379
Secondary Distribution	Total Obligation Authority	165.354	84.618	99.846	-	99.846

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary	Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
All Up Round ^(†)		2021	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Apr 2021	Mar 2023	763	166.292	Y		Oct 2019
All Up Round ^(†)		2022	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Apr 2022	Mar 2024	279	192.771	Y		Oct 2019
All Up Round ^(†)		2023	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Apr 2023	Mar 2025	379	197.884	Y		Oct 2019

^(†) indicates the presence of a P-21

Remarks:

JJV: Javelin Joint Venture (includes Raytheon in Tucson, AZ and Lockheed Martin in Orlando, FL)
 SS: Sole Source
 FFP: Firm Fixed Price
 AMCOM: Aviation and Missile Command

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 **P-1 Line Item Number / Title:** 0648CC0007 / Javelin (AAWS-M) System Summary **Item Number / Title [DODIC]:** H06102 / JAVELIN (AAWS-M)

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2021													Fiscal Year 2022													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							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: 32814																																	
	1	2021	ARMY	763	0	763																							763				
	1	2021	FMS (†)	193	0	193																							193				
	1	2021	MC (†)	99	0	99																							99				
	1	2021	NAVY (†)	3	0	3																							3				
	1	2021	Total	1,058	0	1,058																							1,058				
	1	2022	ARMY	279	0	279																							279				
	1	2022	FMS (†)	370	0	370																							370				
	1	2022	MC (†)	1	0	1																							1				
	1	2022	Total	650	0	650																							650				
	1	2023	ARMY	379	0	379																							379				
	1	2023	FMS (†)	259	0	259																							259				
	1	2023	MC (†)	4	0	4																							4				
	1	2023	NAVY (†)	8	0	8																							8				
	1	2023	Total	650	0	650																							650				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 **P-1 Line Item Number / Title:** 0648CC0007 / Javelin (AAWS-M) System Summary **Item Number / Title [DODIC]:** H06102 / JAVELIN (AAWS-M)

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2023														Fiscal Year 2024												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024												
							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: 32814																																	
1	2021	ARMY	763	0	763	-	-	-	-	-	-	88	88	88	88	88	88	88	59	-	-	-							0				
1	2021	FMS (†)	193	0	193	-	-	-	-	-	-	-	-	-	-	-	-	-	29	88	76	-							0				
1	2021	MC (†)	99	0	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	86							0				
1	2021	NAVY (†)	3	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3							0				
1	2021	Total	1,058	0	1,058	-	-	-	-	-	88	88	88	88	88	88	88	88	88	88	89	89	-	-	-	-	-	-	0				
1	2022	ARMY	279	0	279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	54	54	54	54	9	0				
1	2022	FMS (†)	370	0	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	54	271				
1	2022	MC (†)	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1				
1	2022	Total	650	0	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	54	54	54	54	54	272				
1	2023	ARMY	379	0	379																								379				
1	2023	FMS (†)	259	0	259																								259				
1	2023	MC (†)	4	0	4																								4				
1	2023	NAVY (†)	8	0	8																								8				
1	2023	Total	650	0	650																								650				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary	Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE				
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026																
							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: 32814																																				
	1	2021	ARMY	763	763	0																												0		
	1	2021	FMS (+)	193	193	0																												0		
	1	2021	MC (+)	99	99	0																												0		
	1	2021	NAVY (+)	3	3	0																													0	
	1	2021	Total	1,058	1,058	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2022	ARMY	279	279	0	-	-	-	-	-																								0	
	1	2022	FMS (+)	370	99	271	54	54	54	54	55																								0	
	1	2022	MC (+)	1	0	1	-	-	-	-	1																									0
	1	2022	Total	650	378	272	54	54	54	54	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2023	ARMY	379	0	379	-	-	-	-	-	55	55	55	55	55	55	49	-	-	-	-	-													0
	1	2023	FMS (+)	259	0	259	-	-	-	-	-	-	-	-	-	-	6	55	55	55	55	55	33													0
	1	2023	MC (+)	4	0	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4													0
	1	2023	NAVY (+)	8	0	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8													0
	1	2023	Total	650	0	650	-	-	-	-	-	55	55	55	55	55	55	55	55	55	55	45	-	-	-	-	-	-	-	-	-	-	-	-	0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2023 Army	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary	Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	JJV All Up Round - Tucson AZ Orlando FL	850	3,960	6,480	4	7	23	30	6	3	29	32

Remarks:

Javelin relies on the combined United States Army, other services, and FMS procurements to reach Minimum Sustaining Rate.

Contract currently caps production at 2,100 missiles annually.

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

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

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary	Item Number / Title [DODIC]: H06103 / Javelin Lightweight Command Launch Unit (CLU)

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	5	86	203	-	203
Gross/Weapon System Cost (\$ in Millions)				-	15.970	44.194	63.122	-	63.122
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	15.970	44.194	63.122	-	63.122
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				-	15.970	44.194	63.122	-	63.122
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	3,194.000	513.884	310.946	-	310.946

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																		
Light Weight CLU Production ^(†)	-	-	-	442.600	5	2.213	350.698	86	30.160	241.803	203	49.086	-	-	-	241.803	203	49.086
Engineering Services	-	-	-	-	-	1.377	-	-	1.713	-	-	1.747	-	-	-	-	-	1.747
Acceptance Testing	-	-	-	-	-	0.400	-	-	0.529	-	-	0.540	-	-	-	-	-	0.540
Fielding	-	-	-	-	-	0.173	-	-	1.059	-	-	1.080	-	-	-	-	-	1.080
Subtotal: Recurring Cost	-	-	-	-	-	4.163	-	-	33.461	-	-	52.453	-	-	-	-	-	52.453
Non Recurring Cost																		
Initial Production Facilitation	-	-	-	-	-	10.932	-	-	8.369	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	10.932	-	-	8.369	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	-	-	-	15.095	-	-	41.830	-	-	52.453	-	-	-	-	-	52.453
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.875	-	-	1.088	-	-	1.110	-	-	-	-	-	1.110
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.875	-	-	1.088	-	-	1.110	-	-	-	-	-	1.110
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	1.276	-	-	1.301	-	-	-	-	-	1.301
Subtotal: Support - Program Management Cost	-	-	-	-	-	-	-	-	1.276	-	-	1.301	-	-	-	-	-	1.301

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary	Item Number / Title [DODIC]: H06103 / Javelin Lightweight Command Launch Unit (CLU)

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
Support - Training Cost																		
Equipment	-	-	-	-	-	-	-	-	-	-	-	8.258	-	-	-	-	-	8.258
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	-	-	-	8.258	-	-	-	-	-	8.258
Gross/Weapon System Cost	-	-	-	3,194.000	5	15.970	513.884	86	44.194	310.946	203	63.122	-	-	-	310.946	203	63.122

Remarks:

Lightweight CLU unit prices will be reduced significantly once full-rate production is achieved, and will be further reduced by combining Army procurement quantities with other U.S. services and foreign military sales quantities.

Beginning in FY22, the project office will start appropriately allocating some Government Support costs to the Javelin Lightweight CLU Funding line (H06103) for personnel and government agencies that support the Lightweight CLU procurement efforts. No allocation was made for Government Support costs in FY21 because the majority of funds were for Initial Production Facilitization.

Fielding costs include initial consumables including Battery Coolant Units (BCU).

Procurement of training devices begins in FY23 to include Lightweight CLU Basic Skills Trainers and Javelin Outdoor Trainers.

Facilitization costs in FY21 and FY22 include cost to set up a new production line for Lightweight CLU builds. FY21 began procurement of 5 pilot units, with a ramp up to 86 units planned for procurement in FY22 and 203 units in FY23.

Army Acquisition Objective (AAO) is a total of 4,979 Lightweight CLUs which will be fielded to all Infantry and Stryker Brigade Combat Teams, as well as Army Rangers and Special Operations Forces.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	5	86	203	-	203
	Total Obligation Authority	15.970	44.194	63.122	-	63.122
Total:	Quantity	5	86	203	-	203
Secondary Distribution	Total Obligation Authority	15.970	44.194	63.122	-	63.122

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army							Date: April 2022					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30			P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary				Item Number / Title [DODIC]: H06103 / Javelin Lightweight Command Launch Unit (CLU)					

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
Light Weight CLU Production ^(†)		2021	JJV Lightweight CLU / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal AL	Jun 2021	Jun 2023	5	442.600	N		Oct 2019
Light Weight CLU Production ^(†)		2022	JJV Lightweight CLU / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal AL	Jun 2022	Jun 2024	86	350.698	N		Oct 2020
Light Weight CLU Production ^(†)		2023	JJV Lightweight CLU / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal AL	Jun 2023	Jun 2025	203	241.803	N		Oct 2020

^(†) indicates the presence of a P-21

Remarks:

JJV: Javelin Joint Venture (includes Raytheon in Tucson, AZ and Lockheed Martin in Orlando, FL)
 SS: Sole Source
 FFP: Firm Fixed Price
 AMCOM: Aviation and Missile Command

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Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30		P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary
		Item Number / Title [DODIC]: H06103 / Javelin Lightweight Command Launch Unit (CLU)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024														
							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		
Light Weight CLU Production																																	
1	2021	ARMY	5	0	5	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2022	ARMY	86	0	86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	7	7	56
1	2023	ARMY	203	0	203										A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	203	
1	2023	NAVY (†)	20	0	20										A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
1	2023	Total	223	0	223										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	223	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2023 Army															Date: April 2022														
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30										P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary										Item Number / Title [DODIC]: H06103 / Javelin Lightweight Command Launch Unit (CLU)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							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			
Light Weight CLU Production																																	
1		2021	ARMY	5	5	0																							0				
1		2022	ARMY	86	30	56	7	7	7	7	7	7	7																0				
1		2023	ARMY	203	0	203	-	-	-	-	-	-	-	18	18	18	18	18	18	19	19	19	19	19	18	-			0				
1		2023	NAVY (‡)	20	0	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	19				0				
1		2023	Total	223	0	223	-	-	-	-	-	-	-	18	18	18	18	18	19	19	19	19	19	19	19	19	-	-	-	-	0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30		P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary
		Item Number / Title [DODIC]: H06103 / Javelin Lightweight Command Launch Unit (CLU)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	JJV Lightweight CLU - Tucson AZ Orlando FL	120	480	600	3	9	24	33	1	1	22	23

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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: 2104C59300 / TOW 2 System Summary
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	175,557	1,231	887	893	-	893	1,061	1,056	1,029	1,005	-	182,719
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,757.241	123.474	101.912	105.423	-	105.423	122.602	124.577	124.461	124.491	-	4,584.181
Less PY Advance Procurement (<i>\$ in Millions</i>)	227.547	10.500	-	-	-	-	-	-	-	-	-	238.047
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,529.694	112.974	101.912	105.423	-	105.423	122.602	124.577	124.461	124.491	-	4,346.134
Plus CY Advance Procurement (<i>\$ in Millions</i>)	238.047	-	-	-	-	-	-	-	-	-	-	238.047
Total Obligation Authority (<i>\$ in Millions</i>)	3,767.741	112.974	101.912	105.423	-	105.423	122.602	124.577	124.461	124.491	-	4,584.181

(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>)	21.402	100.304	114.895	118.055	-	118.055	115.553	117.971	120.953	123.872	-	25.089

Description:

This funding line is a key enabler of the Army Modernization Priorities in support of the Next Generation Combat Vehicle.

Tube launched, Optically tracked, Wireless guided (TOW) missiles (BGM-71 Series) are combat proven munitions that provide heavy anti-armor/assault capability to the Army's Infantry Brigade Combat Teams (IBCT), Stryker Brigade Combat Teams (SBCT) and Armor Brigade Combat Teams (ABCT). TOW missiles continue to be used as the weapon of choice in precision combat engagements. TOW missiles are also the primary heavy anti-armor/assault missile for the U.S. Marine Corps (USMC) and more than 43 allied nations. Warfighters also employ TOW missiles against buildings and field fortifications, taking advantage of the missile's precision assault capabilities. The TOW weapon system is an Army-led, Acquisition Category (ACAT) IC Major Defense Acquisition Program (MDAP) that has joint interest with the U.S. Marine Corps.

The TOW Weapon System includes the ITAS launcher, TOW missiles, and associated tactical training aids/devices. The Improved Target Acquisition System (ITAS) is a combat proven TOW missile launcher that provides long-range, lethal anti-armor and precision assault fires capability for Active, Reserve, and National Guard component Infantry and SBCT across a spectrum of operational environments. The USMC employs the TOW missile from its ITAS derived M41A7 Saber launchers, and Anti-Tank Guided Missile (ATGM) vehicles.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	1,231	887	893	-	893	1,061	1,056	1,029	1,005
	Total Obligation Authority	112.974	101.912	105.423	-	105.423	122.602	124.577	124.461	124.491
Total: Secondary Distribution	Quantity	1,231	887	893	-	893	1,061	1,056	1,029	1,005
	Total Obligation Authority	112.974	101.912	105.423	-	105.423	122.602	124.577	124.461	124.491

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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:**
2104C59300 / TOW 2 System Summary

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C59403 / TOW Family of Missiles	P-5a, P-21			175,557 / 3,757.241	1,231 / 123.474	887 / 101.912	893 / 105.423	- / -	893 / 105.423
P-40	Total Gross/Weapon System Cost				175,557 / 3,757.241	1,231 / 123.474	887 / 101.912	893 / 105.423	- / -	893 / 105.423

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

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

Justification:
FY23 Base Procurement dollars in the amount of \$105.423 million procures 893 TOW 2B Aero missiles and provides combat inventory at levels required by the US Army's Total Munitions Requirement.

The estimated missile unit price is based on combined US Army, other services and FMS procurements of 2,100 missiles per year, which is below the Minimum Sustaining Rate (MSR) of 2,880.

Funding increase from FY22 to FY23 is due to increased procurement of missiles.

The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to increase the Army procurement of TOW Missiles and/or address safety, reliability, affordability, producibility, and/or obsolescence.

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

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Exhibit P-5, Cost Analysis: PB 2023 Army											Date: April 2022							
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30						P-1 Line Item Number / Title: 2104C59300 / 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 2021			FY 2022			FY 2023 Base			FY 2023 OCO		FY 2023 Total	
Procurement Quantity (Units in Each)				175,557		1,231			887			893			-		893	
Gross/Weapon System Cost (\$ in Millions)				3,757.241		123.474			101.912			105.423			-		105.423	
Less PY Advance Procurement (\$ in Millions)				227.547		10.500			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				3,529.694		112.974			101.912			105.423			-		105.423	
Plus CY Advance Procurement (\$ in Millions)				238.047		-			-			-			-		-	
Total Obligation Authority (\$ in Millions)				3,767.741		112.974			101.912			105.423			-		105.423	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-			-			-			-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				21.402		100.304			114.895			118.055			-		118.055	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 Contract ^(†)	20.804	175,092	3,642.564	90.480	1,231	111.381	95.682	887	84.870	99.339	893	88.710	-	-	-	99.339	893	88.710
Engineering Services	-	-	-	-	-	-	-	-	3.432	-	-	3.540	-	-	-	-	-	3.540
Acceptance Testing	-	-	22.141	-	-	-	-	-	3.114	-	-	3.215	-	-	-	-	-	3.215
Subtotal: Recurring Cost	-	-	3,664.705	-	-	111.381	-	-	91.416	-	-	95.465	-	-	-	-	-	95.465
Non Recurring Cost																		
Counter Active Protection System (CAPS) Obsolescence	-	-	-	-	-	2.375	-	-	3.576	-	-	2.874	-	-	-	-	-	2.874
Subtotal: Non Recurring Cost	-	-	-	-	-	2.375	-	-	3.576	-	-	2.874	-	-	-	-	-	2.874
Subtotal: Flyaway Cost	-	-	3,664.705	-	-	113.756	-	-	94.992	-	-	98.339	-	-	-	-	-	98.339
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	4.875	-	-	4.998	-	-	-	-	-	4.998
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	4.875	-	-	4.998	-	-	-	-	-	4.998
Support - Program Management Cost																		
Government Management	-	-	60.635	-	-	6.224	-	-	2.045	-	-	2.086	-	-	-	-	-	2.086
Subtotal: Support - Program Management Cost	-	-	60.635	-	-	6.224	-	-	2.045	-	-	2.086	-	-	-	-	-	2.086
Support - System Engineering Cost																		
System Engineering	-	-	31.901	-	-	3.494	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2023 Army												Date: April 2022					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30						P-1 Line Item Number / Title: 2104C59300 / 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:							

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - System Engineering Cost</i>	-	-	31.901	-	-	3.494	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	21.402	175,557	3,757.241	100.304	1,231	123.474	114.895	887	101.912	118.055	893	105.423	-	-	-	118.055	893	105.423

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

Cost Element Breakout	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 Contract	20.804	175,092	3,642.564	90.480	1,231	111.381	95.682	887	84.870	99.339	893	88.710	-	-	-	99.339	893	88.710
All configurations (FY 19 and prior)	20.329	173,632	3,529.681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2B Aero	89.607	960	86.023	114.778	731	83.903	95.682	887	84.870	99.339	893	88.710	-	-	-	99.339	893	88.710
Bunker Buster	53.552	500	26.776	54.956	500	27.478	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

The P-5 Cost Elements for FY23 follow the FY22 Cost Elements that were restructured and realigned to improve tracking and reporting of actuals and improve consistency in P-5 reporting across the Tactical Aviation and Ground Munitions Project Management Office (TAGM PMO) portfolio.

- The FY21 Cost Element "System Engineering" Recurring Cost and is now labeled "Engineering Services" in FY22 and FY23
- The FY21 Cost Element "Acceptance Test" is now under Recurring Cost in FY22 and FY23
- The FY21 Cost Element "Government Management" was split into "Production Engineering" and "Government Management" in FY22 and FY23.

FY23 Base Procurement Dollars in the amount of \$105.423 million procures 893 TOW 2B Aero missiles and provides combat inventory at levels required by the US Army's Total Munitions Requirement.

FY23 procurement of \$2.874M procures CAPS hardware for component obsolescence and system tests and conducts the component level qualification of the CAPS hardware.

The estimated missile unit price is based on combined US Army, other services and FMS procurements of 2,100 missiles per year, which is below the Minimum Sustaining Rate (MSR) of 2,880.

The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to increase the Army procurement of TOW Missiles and/or address safety, reliability, affordability, producibility, and/or obsolescence.

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

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	1,231	887	893	-	893

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Exhibit P-5, Cost Analysis: PB 2023 Army	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary	Item Number / Title [DODIC]: C59403 / TOW Family of Missiles
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Total Obligation Authority	112.974	101.912	105.423	-	105.423
Total:					
Secondary Distribution					
Quantity	1,231	887	893	-	893
Total Obligation Authority	112.974	101.912	105.423	-	105.423

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary	Item Number / Title [DODIC]: C59403 / TOW Family of Missiles
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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 ^(†)		2021	Raytheon / Tucson	SS / FPIF	AMCOM, Redstone Arsenal, AL	Mar 2021	Mar 2023	1,231	90.480	Y		Apr 2018
Missile Contract ^(†)		2022	Raytheon / Tucson	SS / FPIF	AMCOM, Redstone Arsenal, AL	Jun 2022	Jun 2024	887	95.682	Y		Aug 2020
Missile Contract ^(†)		2023	Raytheon / Tucson	SS / FPIF	AMCOM, Redstone Arsenal, AL	Jun 2023	Jul 2025	893	99.339	Y		Feb 2022

^(†) indicates the presence of a P-21

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

AMCOM Aviation and Missile Command
 FFP Firm Fixed Price
 FPIF Fixed Price Incentive Firm Target
 SS Sole Source

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 **P-1 Line Item Number / Title:** 2104C59300 / TOW 2 System Summary **Item Number / Title [DODIC]:** C59403 / TOW Family of Missiles

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2021													Fiscal Year 2022													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							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: 175092																																	
	1	2021	ARMY	1,231	0	1,231																							1,231				
	1	2021	FMS (†)	427	0	427																							427				
	1	2021	MC (†)	448	0	448																							448				
	1	2021	Total	2,106	0	2,106																							2,106				
	1	2022	ARMY	887	0	887																							887				
	1	2022	FMS (†)	1,278	0	1,278																							1,278				
	1	2022	MC (†)	463	0	463																							463				
	1	2022	Total	2,628	0	2,628																							2,628				
	1	2023	ARMY	893	0	893																							893				
	1	2023	FMS (†)	1,018	0	1,018																							1,018				
	1	2023	MC (†)	225	0	225																							225				
	1	2023	Total	2,136	0	2,136																							2,136				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 **P-1 Line Item Number / Title:** 2104C59300 / TOW 2 System Summary **Item Number / Title [DODIC]:** C59403 / TOW Family of Missiles

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2023													Fiscal Year 2024													BALANCE																					
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024																																
							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: 175092																																																				
1	2021	ARMY	1,231	0	1,231	-	-	-	-	-	-	176	176	176	176	176	176	175	-	-	-	-	-	-	-	-	-	-	-	0																						
1	2021	FMS (†)	427	0	427	-	-	-	-	-	-	-	-	-	-	-	-	77	175	175	-	-	-	-	-	-	-	-	0																							
1	2021	MC (†)	448	0	448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	175	175	98	-	-	-	-	-	0																							
1	2021	Total	2,106	0	2,106	-	-	-	-	-	-	176	176	176	176	176	176	175	77	175	175	175	175	98	-	-	-	-	0																							
1	2022	ARMY	887	0	887	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	189	240	240	218	0																					
1	2022	FMS (†)	1,278	0	1,278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,278																						
1	2022	MC (†)	463	0	463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	463																						
1	2022	Total	2,628	0	2,628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	189	240	240	218	1,741																					
1	2023	ARMY	893	0	893														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	893																		
1	2023	FMS (†)	1,018	0	1,018														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,018																	
1	2023	MC (†)	225	0	225														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	225																	
1	2023	Total	2,136	0	2,136														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,136																	
<table style="width: 100%; border-collapse: collapse; font-size: 8px;"> <tr> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> </tr> </table>																													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
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																													

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 **P-1 Line Item Number / Title:** 2104C59300 / TOW 2 System Summary **Item Number / Title [DODIC]:** C59403 / TOW Family of Missiles

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 4	BAL D U E A S O F 1 O C T	Calendar Year 2025													Calendar Year 2026															
							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: 175092																																			
1	2021	ARMY	1,231	1,231	0																														0
1	2021	FMS (+)	427	427	0																														0
1	2021	MC (+)	448	448	0																														0
1	2021	Total	2,106	2,106	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2022	ARMY	887	887	0																														0
1	2022	FMS (+)	1,278	0	1,278	215	215	215	215	215	203	-	-	-																					0
1	2022	MC (+)	463	0	463	-	-	-	-	-	-	198	240	25																					0
1	2022	Total	2,628	887	1,741	215	215	215	215	215	203	198	240	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2023	ARMY	893	0	893	-	-	-	-	-	-	-	-	-	175	175	175	175	157	36	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2023	FMS (+)	1,018	0	1,018	-	-	-	-	-	-	-	-	-	-	-	-	-	183	175	175	175	175	135	-	-	-	-	-	-	-	-	0		
1	2023	MC (+)	225	0	225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	75	75	-	-	-	-	-	-	-	0	
1	2023	Total	2,136	0	2,136	-	-	-	-	-	-	-	-	-	175	175	175	175	340	211	175	175	175	210	75	75	75	-	-	-	-	0			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30		P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary
		Item Number / Title [DODIC]: C59403 / TOW Family of Missiles

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Raytheon - Tucson	2,880	9,600	24,000	3	2	24	26	3	2	24	26

Remarks:
The Program Office plans to mitigate potential challenges of procuring missiles at less than the Minimum Sustaining Rate through active management of industrial base production activities.

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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: 6005C64400 / Guided MLRS Rocket (GMLRS)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603778A, 0205778A
--	---	---

Line Item MDAP/MAIS Code: 260

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	50,116	5,910	5,838	4,674	-	4,674	3,588	3,958	3,816	3,996	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6,443.569	903.009	862.699	785.028	-	785.028	676.163	739.870	741.516	742.436	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6,443.569	903.009	862.699	785.028	-	785.028	676.163	739.870	741.516	742.436	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6,443.569	903.009	862.699	785.028	-	785.028	676.163	739.870	741.516	742.436	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>)	128.573	152.793	147.773	167.956	-	167.956	188.451	186.930	194.318	185.795	Continuing	Continuing

Description:

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

The GMLRS Program currently consists of multiple variants: GMLRS Unitary utilizes a 200 pound high explosive warhead to engage point targets with limited collateral damage. GMLRS Alternative Warhead (AW) was developed as a non-cluster munition to engage area or imprecisely located targets. GMLRS Unitary and AW are currently in full rate production. An Engineering Change Proposal (ECP) is currently in process to extend the range of GMLRS rockets and, upon completion of key development tests, the Extended Range GMLRS (ER GMLRS) will be considered for cut-in to the GMLRS production contract as early as FY23. Range extension will allow GMLRS to reach targets formerly serviced by the more expensive Army Tactical Missile System (ATACMS).

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	5,910	5,838	4,674	-	4,674	3,588	3,958	3,816	3,996
Total Obligation Authority	903.009	862.699	785.028	-	785.028	676.163	739.870	741.516	742.436
Total:									
Secondary Distribution									
Quantity	5,910	5,838	4,674	-	4,674	3,588	3,958	3,816	3,996
Total Obligation Authority	903.009	862.699	785.028	-	785.028	676.163	739.870	741.516	742.436

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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:**
6005C64400 / Guided MLRS Rocket (GMLRS)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0603778A, 0205778A

Line Item MDAP/MAIS Code: 260

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C65404 / GUIDED MLRS ROCKET (GMLRS)	P-5a, P-21			50,116 / 6,440.052	5,910 / 902.513	5,838 / 862.210	4,674 / 785.028	- / -	4,674 / 785.028
P-5	C65406 / GMLRS Training Devices				- / 3.517	- / 0.496	- / 0.489	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				50,116 / 6,443.569	5,910 / 903.009	5,838 / 862.699	4,674 / 785.028	- / -	4,674 / 785.028

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

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

Justification:
The FY 2023 Base procurement dollars in the amount of \$773.731 million support the procurement of 4,596 rockets. FY 2023 Operation Inherent Resolve BBIR dollars in the amount of \$11.297 million will procure 78 rockets in support of projected battlefield expenditure. The actual missile buy quantities are subject to the mix between AW and Unitary warheads, Standard (regular range) versus Extended Range configurations, replacement pod cut-in, and replacement pod/Extended Range ECP tooling capacity ramp-up. In FY 2023, Army guidance is to procure 1,002 Standard Unitary, 3,552 Standard Alternative Warhead (AW), and 120 ER GMLRS Alternative Warhead in support of the Army's Total Munitions Requirement (TMR). The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to support procurement of additional GMLRS rockets.

Funding decrease from FY 2022 to FY 2023 due to reduction in quantities to be procured. As of August 2021, the TMR showed requirements for Unitary of 18,419 and for AW of 66,283. TMR quantities are evaluated and adjusted annually.

Since program inception, GMLRS has benefited from the availability of M-26 pods repurposed for production of standard range GMLRS. Due to dwindling supply of these pods, procurement of replacement pods shall begin in FY 2023.

The AAO is 140,004.

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 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 6005C64400 / 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:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	50,116	5,910	5,838	4,674	-	4,674
Gross/Weapon System Cost (\$ in Millions)	6,440.052	902.513	862.210	785.028	-	785.028
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	6,440.052	902.513	862.210	785.028	-	785.028
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	6,440.052	902.513	862.210	785.028	-	785.028

(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)	128.503	152.709	147.689	167.956	-	167.956

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 ^(†)	114.802	50,116	5,753.426	142.564	6,018	857.953	140.039	5,838	817.545	154.052	4,674	720.039	-	-	-	154.052	4,674	720.039
Ind Maint/Init Prod Fac	-	-	130.143	-	-	-	-	-	5.101	-	-	15.000	-	-	-	-	-	15.000
Production Verification Testing	-	-	129.954	-	-	7.369	-	-	7.606	-	-	7.758	-	-	-	-	-	7.758
First Destination Transportation	-	-	6.420	-	-	0.875	-	-	0.882	-	-	0.766	-	-	-	-	-	0.766
Production Engineering Support	-	-	211.456	-	-	13.280	-	-	13.539	-	-	13.809	-	-	-	-	-	13.809
Spares	-	-	2.912	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>6,234.311</i>	-	-	<i>879.477</i>	-	-	<i>844.673</i>	-	-	<i>757.372</i>	-	-	-	-	-	<i>757.372</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>6,234.311</i>	-	-	<i>879.477</i>	-	-	<i>844.673</i>	-	-	<i>757.372</i>	-	-	-	-	-	<i>757.372</i>

Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	104.973	-	-	19.087	-	-	13.508	-	-	23.548	-	-	-	-	-	23.548
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	<i>104.973</i>	-	-	<i>19.087</i>	-	-	<i>13.508</i>	-	-	<i>23.548</i>	-	-	-	-	-	<i>23.548</i>

Support - Program Management Cost																		
Government Management	-	-	100.767	-	-	3.950	-	-	4.027	-	-	4.108	-	-	-	-	-	4.108

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 6005C64400 / 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:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Program Management Cost</i>	-	-	100.767	-	-	3.950	-	-	4.027	-	-	4.108	-	-	-	-	-	4.108
Gross/Weapon System Cost	128.503	50,116	6,440.052	152.709	5,910	902.513	147.689	5,838	862.210	167.956	4,674	785.028	-	-	-	167.956	4,674	785.028

Remarks:

The FY 2023 production contract is the first year that shall incorporate the production of new pods for the GMLRS program vice repurposed M26 pods that were freely available in past years. In FY 2023, a low rate production run of 216 Build-to-Print (B2P) pods is scheduled. Each pod contains 6 rockets, and the additional production cost for each pod is estimated to be approximately \$60K, leading to an approximate \$10K/rocket unit cost increase for future production. In addition, FY 2023 is the first year in which ER GMLRS shall begin. These factors, coupled with increased procurement of the more expensive AW variant to support the Army's TMR, lead to an overall unit cost growth.

Initial Production Facilities Tooling for full rate B2P pods is planned for FY 2023 at a cost of \$15M in support of full rate production beginning on the FY 2024 production contract.

Costs for Engineering Change Proposals covers activities associated with resolving manufacturing-related changes that arise due to emerging statutory and regulatory requirements, planned and unplanned parts unavailability, supply chain disruptions, cost reduction initiatives, quality improvement, and studies and investigations. Some of the currently known issues that must be resolved include obsolescence of certain components within the safe arm fuze, proximity sensor, guidance set, and motor material. The increase in ECP costs is primarily due to the need to address urgent and ongoing obsolescence issues with the current guidance set. Guidance set issues must be addressed through a refresh to the receiver, followed by a transition to an M-Code based replacement.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	5,910	5,838	4,674	-	4,674
	Total Obligation Authority	902.513	862.210	785.028	-	785.028
Total: Secondary Distribution	Quantity	5,910	5,838	4,674	-	4,674
	Total Obligation Authority	902.513	862.210	785.028	-	785.028

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army							Date: April 2022					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30			P-1 Line Item Number / Title: 6005C64400 / 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		2017	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FPIF	Aviation and Missile Command	May 2017	Jul 2018	2,970	112.270	N		Feb 2016
Tactical GMLRS Hardware		2018	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FPIF	Aviation and Missile Command	Apr 2018	Aug 2019	6,528	151.746	N		Feb 2017
Tactical GMLRS Hardware ^(†)		2019	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FPIF	Aviation and Missile Command	Mar 2019	Aug 2020	7,668	122.689	N		Feb 2017
Tactical GMLRS Hardware ^(†)		2020	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FPIF	Aviation and Missile Command	Mar 2020	Aug 2021	7,878	139.725	N		Feb 2017
Tactical GMLRS Hardware ^(†)		2021	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FPIF	Aviation and Missile Command	Mar 2021	Aug 2022	6,018	142.564	N		May 2019
Tactical GMLRS Hardware ^(†)		2022	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FFP	Aviation and Missile Command	Mar 2022	Aug 2023	5,838	140.039	N		May 2019
Tactical GMLRS Hardware ^(†)		2023	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FFP	Aviation and Missile Command	Mar 2023	Aug 2024	4,674	154.052	N		Feb 2022

^(†) indicates the presence of a P-21

Remarks:

Lockheed Martin is currently the industry source that is both facilitated and qualified to produce the GMLRS rocket. FY19 and FY20 annual production contracts are options on the FY18 base contract.
 The P-5A is incorrect, the FY21 and FY22 annual production contracts are sole sourced/FFP contract types.
 FY21 annual production is planned to be an Indefinite Delivery Indefinite Quantity (IDIQ) contract type.
 FY22 annual production is planned to be a delivery order against the FY21 contract.
 FY23 annual production is planned to be an IDIQ delivery order contract.
 FY24 annual production is planned to be a delivery order against the FY23 contract.

*Sole Source/Fixed Price Incentive Firm

**Aviation and Missile Command, Redstone Arsenal, Alabama

***Sole Source/Firm Fixed Price

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Exhibit P-21, Production Schedule: PB 2023 Army															Date: April 2022														
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30										P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS)										Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS)									

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2021													Fiscal Year 2022													B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 0	BAL D U E A 	Calendar Year 2021													Calendar Year 2022															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P				
Tactical GMLRS Hardware																																			
Prior Years Deliveries: 25072																																			
1	2019	ARMY		7,668	1,284	6,384	642	642	642	642	636	636	636	636	636																				0
1	2019	FMS (+)		900	144	756	72	72	72	72	78	78	78	78	78																				0
1	2019	MC (+)		222	42	180	18	18	18	18	18	18	18	18	18																				0
1	2019	Total		8,790	1,470	7,320	732	732	732	732	732	732	732	732	732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2020	ARMY		7,878	0	7,878	-	-	-	-	-	-	-	-	-	654	654	660	654	660	654	654	660	654	660	660	654							0	
1	2020	FMS (+)		1,014	0	1,014	-	-	-	-	-	-	-	-	-	90	84	84	84	84	84	84	84	84	84	84	84							0	
1	2020	MC (+)		354	0	354	30	30	30	30	30	30	30	30	24	30	30	-	-	-	-	-	-	-	-	-								0	
1	2020	Total		9,246	0	9,246	30	30	30	30	30	30	30	24	774	768	744	738	744	738	738	744	738	744	744	744	738	-	-	-	-	-	0		
1	2021	ARMY		6,018	0	6,018																												5,022	
1	2021	FMS (+)		2,142	0	2,142																												1,782	
1	2021	MC (+)		330	0	330																												270	
1	2021	Total		8,490	0	8,490																												7,074	
1	2022	ARMY		5,838	0	5,838																												5,838	
1	2022	MC (+)		750	0	750																												750	
1	2022	Total		6,588	0	6,588																												6,588	
1	2023	ARMY		4,674	0	4,674																												4,674	
1	2023	MC (+)		834	0	834																												834	
1	2023	Total		5,508	0	5,508																												5,508	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2023 Army															Date: April 2022									
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30										P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS)										Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS)				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Tactical GMLRS Hardware																																	
Prior Years Deliveries: 25072																																	
1	2019	ARMY		7,668	7,668	0																							0				
1	2019	FMS (+)		900	900	0																							0				
1	2019	MC (+)		222	222	0																							0				
1	2019	Total		8,790	8,790	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2020	ARMY		7,878	7,878	0																							0				
1	2020	FMS (+)		1,014	1,014	0																							0				
1	2020	MC (+)		354	354	0																							0				
1	2020	Total		9,246	9,246	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2021	ARMY		6,018	996	5,022	498	498	498	504	504	504	504	504	504														0				
1	2021	FMS (+)		2,142	360	1,782	180	180	180	180	180	180	174	174	174														0				
1	2021	MC (+)		330	60	270	30	30	30	30	24	24	24	24	24														0				
1	2021	Total		8,490	1,416	7,074	708	708	708	714	714	708	708	702	702	702	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2022	ARMY		5,838	0	5,838	-	-	-	-	-	-	-	-	-	486	486	486	486	486	486	486	486	486	486	486	492		0				
1	2022	MC (+)		750	0	750	-	-	-	-	-	-	-	-	-	60	60	60	60	60	60	60	66	66	66	66	66		0				
1	2022	Total		6,588	0	6,588	-	-	-	-	-	-	-	-	-	546	546	546	546	546	546	546	552	552	552	552	558	-	-	0			
1	2023	ARMY		4,674	0	4,674					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	384	390	3,900				
1	2023	MC (+)		834	0	834					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	66	702				
1	2023	Total		5,508	0	5,508																					450	456	4,602				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army															Date: April 2022														
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30										P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS)										Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025														Fiscal Year 2026														BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025														Calendar Year 2026														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Tactical GMLRS Hardware																																			
Prior Years Deliveries: 25072																																			
1	2019	ARMY		7,668	7,668	0																													0
1	2019	FMS (+)		900	900	0																													0
1	2019	MC (+)		222	222	0																													0
1	2019	Total		8,790	8,790	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2020	ARMY		7,878	7,878	0																													0
1	2020	FMS (+)		1,014	1,014	0																													0
1	2020	MC (+)		354	354	0																													0
1	2020	Total		9,246	9,246	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2021	ARMY		6,018	6,018	0																													0
1	2021	FMS (+)		2,142	2,142	0																													0
1	2021	MC (+)		330	330	0																													0
1	2021	Total		8,490	8,490	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2022	ARMY		5,838	5,838	0																													0
1	2022	MC (+)		750	750	0																													0
1	2022	Total		6,588	6,588	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2023	ARMY		4,674	774	3,900	390	390	390	390	390	390	390	390	390																			0	
1	2023	MC (+)		834	132	702	66	66	66	72	72	72	72	72	72																			0	
1	2023	Total		5,508	906	4,602	456	456	456	462	462	462	462	462	462	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
							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					

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30		P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS)
		Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin M.&F.C Sys. - Dallas, TX	2,160	10,002	10,002	0	2	16	18	0	5	15	20

Remarks:
 In the years prior to FY 2020, the GMLRS program shares a production line with Low Cost Reduced Range Practice Rockets (LCRRPR). Any months that show production gaps in years prior to FY 2020 were utilized to manufacture LCRRPR. After FY 2020, LCRRPR will move to its own production line and GMLRS will be delivered on a monthly schedule with no gaps.

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

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

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS)	Item Number / Title [DODIC]: C65406 / GMLRS Training Devices

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	3.517	0.496	0.489	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	3.517	0.496	0.489	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	3.517	0.496	0.489	-	-	-

(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>	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																		
GMLRS TRAINING DEVICES	-	-	3.517	-	-	0.496	-	-	0.489	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	3.517	-	-	0.496	-	-	0.489	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	3.517	-	-	0.496	-	-	0.489	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	3.517	-	-	0.496	-	-	0.489	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	0.496	0.489	-	-	-
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.496	0.489	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0210602A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	53,181	3,990	3,648	342	-	342	1,314	3,732	3,906	3,834	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	330.883	30.836	29.574	4.354	-	4.354	10.516	30.716	32.926	32.934	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	330.883	30.836	29.574	4.354	-	4.354	10.516	30.716	32.926	32.934	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	330.883	30.836	29.574	4.354	-	4.354	10.516	30.716	32.926	32.934	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>)	6.222	7.728	8.107	12.731	-	12.731	8.003	8.230	8.430	8.590	Continuing	Continuing

Description:

The Multiple Launch Rocket System (MLRS) Low Cost Reduced Range Practice Rocket (LCRRPR) is the only live training rocket that meets the annual certification and pre-deployment requirements for Active and National Guard High Mobility Artillery Rocket System (HIMARS) and M270/M270A1 MLRS launcher units. The critical validated requirement for launcher units ensures units can 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.

LCRRPRs are manufactured by Lockheed Martin in Camden, Arkansas and Letterkenny Munitions Center (LEMC) in Chambersburg, Pennsylvania. LEMC provides an organic dual source. The LCRRPR program includes the cost to Download/Demate (DL/DM) the M26 pod and rocket motor for production reuse. Total cost also includes Bunker Storage and the procurement of Performance Oriented Packaging (POP) boxes, Inert Warheads, Reworked Igniters, M-26 Rocket Motor Reclamation contract, and RRPR obsolescence.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	2,784	2,436	252	-	252	960	2,838	3,048	2,988
Total Obligation Authority	21.504	19.772	3.178	-	3.178	7.677	23.344	25.682	25.689
ANG									
Quantity	1,206	1,212	90	-	90	354	894	858	846
Total Obligation Authority	9.332	9.802	1.176	-	1.176	2.839	7.372	7.244	7.245
Total: Secondary Distribution	3,990	3,648	342	-	342	1,314	3,732	3,906	3,834
Total Obligation Authority	30.836	29.574	4.354	-	4.354	10.516	30.716	32.926	32.934

Justification:

FY2023 Base procurement dollars in the amount of \$4.354 million support the procurement of 342 LCRRPRs which are required to maintain the practice rocket inventory for Standards in Training Commission (STRC) requirements. The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to support procurement of additional LCRRPR rockets.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
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: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR)
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0210602A
Line Item MDAP/MAIS Code: N/A		

Funding decrease from FY 2022 to FY 2023 due to reduction in quantities to be procured.

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-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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: 6200C02901 / High Mobility Artillery Rocket System (HIMARS)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0210608A, 0603778A
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Line Item MDAP/MAIS Code: 367

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	416	5	19	23	-	23	27	19	18	18	-	545
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,031.716	46.276	128.438	155.705	-	155.705	189.574	134.670	134.044	134.076	-	2,954.499
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,031.716	46.276	128.438	155.705	-	155.705	189.574	134.670	134.044	134.076	-	2,954.499
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,031.716	46.276	128.438	155.705	-	155.705	189.574	134.670	134.044	134.076	-	2,954.499

(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>)	4,883.933	9,255.200	6,759.895	6,769.783	-	6,769.783	7,021.259	7,087.895	7,446.889	7,448.667	-	5,421.099

Description:

The M142 High Mobility Artillery Rocket System (HIMARS) launcher is a full spectrum, combat proven, all weather, 24/7 lethal and responsive, precision strike weapon system. HIMARS launchers support the Army's number one priority modernization effort, Long Range Precision Fires. HIMARS provides critical missile precision strike, operational shaping fires, counter-fire, and close support destructive and suppressive fires. HIMARS is a C-130 or C-17 transportable, wheeled, indirect fire, rocket/missile launcher capable of firing one pod of precision rockets/missiles from the current and future Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM), to include the Guided Multiple Launch Rocket System (GMLRS), Extended Range (ER) GMLRS, the Army Tactical Missile System (ATACMS), and the Precision Strike Missile in support of Integrated Fires and Multi-Domain Operations.

The Army currently has 395 HIMARS launchers on hand and is increasing the Army Acquisition Objective to 521 to support the Army Structure Memorandums for 2022-2026, and 2023-2027.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	5	19	22	-	22	27	19	18
	Total Obligation Authority	46.276	128.438	148.935	-	148.935	189.574	134.670	134.044
ANG	Quantity	-	-	1	-	1	-	-	-
	Total Obligation Authority	-	-	6.770	-	6.770	-	-	-
Total:	Quantity	5	19	23	-	23	27	19	18
Secondary Distribution	Total Obligation Authority	46.276	128.438	155.705	-	155.705	189.574	134.670	134.044

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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:** 6200C02901 / High Mobility Artillery Rocket System (HIMARS)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0210608A, 0603778A

Line Item MDAP/MAIS Code: 367

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C03000 / HIMARS LAUNCHER	P-5a, P-21			416 / 2,031.716	5 / 46.276	19 / 128.438	23 / 155.705	- / -	23 / 155.705
P-40	Total Gross/Weapon System Cost				416 / 2,031.716	5 / 46.276	19 / 128.438	23 / 155.705	- / -	23 / 155.705

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

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

Justification:
 FY2023 Base procurement dollars in the amount of \$155.705 million procures 23 M142 HIMARS launchers and associated equipment. The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to support additional HIMARS launchers and Fleet Expansion.

 HIMARS Funding increase (\$27.267M) from FY2022 to FY2023 procures 4 additional HIMARS Launchers to meet force structure requirements in the Army Structure Memorandum.

 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 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 6200C02901 / High Mobility Artillery Rocket System (HIMARS)	Item Number / Title [DODIC]: C03000 / HIMARS LAUNCHER

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	416	5	19	23	-	23
Gross/Weapon System Cost (\$ in Millions)	2,031.716	46.276	128.438	155.705	-	155.705
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,031.716	46.276	128.438	155.705	-	155.705
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,031.716	46.276	128.438	155.705	-	155.705

(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)	4,883.933	9,255.200	6,759.895	6,769.783	-	6,769.783

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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																		
Launcher ^(†)	3,142.197	416	1,307.154	5,430.250	4	21.721	5,538.895	19	105.239	5,624.818	23	129.371	-	-	-	5,624.818	23	129.371
Carrier	8,494.792	24	203.875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	1,511.029	-	-	21.721	-	-	105.239	-	-	129.371	-	-	-	-	-	129.371
Non Recurring Cost																		
European Deterrence Initiative Production Restart - Obsolescence Mitigation	-	-	74.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	74.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	1,585.429	-	-	21.721	-	-	105.239	-	-	129.371	-	-	-	-	-	129.371
Vehicles Cost																		
Non Recurring Cost																		
National Advanced Surface to Air Missile System (NASAMS)	-	-	-	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Vehicles Cost	-	-	-	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	75.528	-	-	2.659	-	-	5.729	-	-	6.635	-	-	-	-	-	6.635

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Exhibit P-5, Cost Analysis: PB 2023 Army													Date: April 2022					
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30						P-1 Line Item Number / Title: 6200C02901 / High Mobility Artillery Rocket System (HIMARS)						Item Number / Title [DODIC]: C03000 / HIMARS LAUNCHER						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Fielding Cost</i>	-	-	75.528	-	-	2.659	-	-	5.729	-	-	6.635	-	-	-	-	-	6.635
Support - Operational/Site Activation Cost																		
System Assembly, Installation and Checkout on Site	-	-	28.410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Operational/Site Activation Cost</i>	-	-	28.410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Peculiar Support Equipment Cost																		
Support and Handling Equipment	-	-	39.307	-	-	1.992	-	-	2.826	-	-	3.032	-	-	-	-	-	3.032
<i>Subtotal: Support - Peculiar Support Equipment Cost</i>	-	-	39.307	-	-	1.992	-	-	2.826	-	-	3.032	-	-	-	-	-	3.032
Support - Production Engineering Cost																		
Production Engineering	-	-	114.656	-	-	6.666	-	-	10.131	-	-	11.811	-	-	-	-	-	11.811
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	114.656	-	-	6.666	-	-	10.131	-	-	11.811	-	-	-	-	-	11.811
Support - Program Management Cost																		
Government Management	-	-	23.611	-	-	3.238	-	-	3.303	-	-	3.369	-	-	-	-	-	3.369
<i>Subtotal: Support - Program Management Cost</i>	-	-	23.611	-	-	3.238	-	-	3.303	-	-	3.369	-	-	-	-	-	3.369
Support - System Engineering Cost																		
System Engineering	-	-	130.846	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Engineering Cost</i>	-	-	130.846	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	33.929	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	33.929	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Training Cost																		
Services	-	-	-	-	-	-	-	-	1.210	-	-	1.487	-	-	-	-	-	1.487
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	1.210	-	-	1.487	-	-	-	-	-	1.487
Gross/Weapon System Cost	4,883.933	416	2,031.716	9,255.200	5	46.276	6,759.895	19	128.438	6,769.783	23	155.705	-	-	-	6,769.783	23	155.705

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Exhibit P-5, Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 6200C02901 / High Mobility Artillery Rocket System (HIMARS)	Item Number / Title [DODIC]: C03000 / HIMARS LAUNCHER
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	5	19	22	-	22
	Total Obligation Authority	46.276	128.438	148.935	-	148.935
ANG	Quantity	-	-	1	-	1
	Total Obligation Authority	-	-	6.770	-	6.770
Total:	Quantity	5	19	23	-	23
Secondary Distribution	Total Obligation Authority	46.276	128.438	155.705	-	155.705

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 6200C02901 / High Mobility Artillery Rocket System (HIMARS)	Item Number / Title [DODIC]: C03000 / HIMARS LAUNCHER
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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
Launcher ^(†)		2019	Lockheed Martin M. F. C. Sys / Dallas Texas	SS / FPIF	Aviation & Missile Command	Jul 2019	Dec 2021	17	7,609.353	N		Jan 2019
Launcher ^(†)		2021	Lockheed Martin M. F. C. Sys / Dallas Texas	SS / FPIF	Aviation & Missile Command	Jul 2021	Oct 2023	4	5,430.250	N		Jan 2019
Launcher ^(†)		2022	Lockheed Martin M. F. C. Sys / Dallas Texas	SS / FPIF	Aviation & Missile Command	Apr 2022	May 2024	19	5,538.895	N		Jan 2021
Launcher ^(†)		2023	Lockheed Martin M. F. C. Sys / Dallas Texas	SS / FPIF	Aviation & Missile Command	Apr 2023	Feb 2025	23	5,624.826	N		Jan 2021

^(†) indicates the presence of a P-21

Remarks:

US Army has no funding for Army HIMARS launcher procurement in FY20, however there are 10 USMC HIMARS launchers and 18 FMS HIMARS launchers being produced by the prime contractor. Due to a unique limitation with the Army's budget justification database, only rows that have a matching US ARMY manufacturer and FY will appear on the budget justification document.

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 **P-1 Line Item Number / Title:** 6200C02901 / High Mobility Artillery Rocket System (HIMARS) **Item Number / Title [DODIC]:** C03000 / HIMARS LAUNCHER

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							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
Launcher																															
Prior Years Deliveries: 399																															
1		2019	ARMY	17	0	17																									
1		2019	FMS (†)	38	0	38																									
1		2019	MC (†)	10	0	10																									
1		2019	Total	65	0	65																									
1		2021	ARMY	4	0	4																									
1		2021	FMS (†)	11	0	11																									
1		2021	MC (†)	6	0	6																									
1		2021	Total	21	0	21																									
1		2022	ARMY	19	0	19																									
1		2023	ARMY	23	0	23																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 **P-1 Line Item Number / Title:** 6200C02901 / High Mobility Artillery Rocket System (HIMARS) **Item Number / Title [DODIC]:** C03000 / HIMARS LAUNCHER

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2021													Fiscal Year 2022													BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							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			
Launcher																																	
Prior Years Deliveries: 399																																	
	1	2019	ARMY	17	0	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	2	2	2	3	-	-	-	-	0		
	1	2019	FMS (†)	38	0	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	4	-	29		
	1	2019	MC (†)	10	0	10	-	-	-	-	-	-	-	-	1	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2019	Total	65	0	65	-	-	-	-	-	-	-	-	1	5	4	-	-	6	2	2	2	2	3	2	3	4	-	29			
	1	2021	ARMY	4	0	4																								4			
	1	2021	FMS (†)	11	0	11																								11			
	1	2021	MC (†)	6	0	6																								6			
	1	2021	Total	21	0	21																								21			
	1	2022	ARMY	19	0	19																								19			
	1	2023	ARMY	23	0	23																								23			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 **P-1 Line Item Number / Title:** 6200C02901 / High Mobility Artillery Rocket System (HIMARS) **Item Number / Title [DODIC]:** C03000 / HIMARS LAUNCHER

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							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			
Launcher																																	
Prior Years Deliveries: 399																																	
1	2019	ARMY		17	17	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2019	FMS (†)		38	9	29	-	2	4	4	4	4	4	4	3														0				
1	2019	MC (†)		10	10	0	-	-	-	-	-	-	-	-	-														0				
1	2019	Total		65	36	29	-	2	4	4	4	4	4	4	3														0				
1	2021	ARMY		4	0	4	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	0					
1	2021	FMS (†)		11	0	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3	3			0					
1	2021	MC (†)		6	0	6	-	-	-	-	-	-	-	-	-	-	4	2	-	-	-	-	-	-	-	-	-	0					
1	2021	Total		21	0	21	-	-	-	-	-	-	-	-	-	-	4	4	2	-	-	2	3	3	3	-	-	0					
1	2022	ARMY		19	0	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	9				
1	2023	ARMY		23	0	23											A	-	-	-	-	-	-	-	-	-	-	23					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 **P-1 Line Item Number / Title:** 6200C02901 / High Mobility Artillery Rocket System (HIMARS) **Item Number / Title [DODIC]:** C03000 / HIMARS LAUNCHER

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							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			
Launcher																																	
Prior Years Deliveries: 399																																	
	1	2019	ARMY	17	17	0																										0	
	1	2019	FMS (†)	38	38	0																										0	
	1	2019	MC (†)	10	10	0																										0	
	1	2019	Total	65	65	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2021	ARMY	4	4	0																										0	
	1	2021	FMS (†)	11	11	0																										0	
	1	2021	MC (†)	6	6	0																										0	
	1	2021	Total	21	21	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2022	ARMY	19	10	9	2	2	2	2	1																					0	
	1	2023	ARMY	23	0	23	-	-	-	-	1	2	2	2	2	2	2	2	2	2	2											0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Army	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 6200C02901 / High Mobility Artillery Rocket System (HIMARS)	Item Number / Title [DODIC]: C03000 / HIMARS LAUNCHER
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin M. F. C. Sys - Dallas Texas	24	48	72	0	6	18	24	0	6	18	24

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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:**
6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203802A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	849	-	-	-	-	-	-	-	-	-	-	849
Gross/Weapon System Cost (<i>\$ in Millions</i>)	221.240	-	61.408	37.937	-	37.937	-	-	-	-	-	320.585
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	221.240	-	61.408	37.937	-	37.937	-	-	-	-	-	320.585
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	221.240	-	61.408	37.937	-	37.937	-	-	-	-	-	320.585

(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>)	260.589	-	-	-	-	-	-	-	-	-	-	377.603

Description:

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

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	61.408	37.937	-	37.937	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	61.408	37.937	-	37.937	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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:** 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0203802A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	P-5a, P-21			849 / 221.240	- / -	- / 61.408	- / 37.937	- / -	- / 37.937
P-40	Total Gross/Weapon System Cost				849 / 221.240	- / -	- / 61.408	- / 37.937	- / -	- / 37.937

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

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

Justification:
 Lethal Miniature Aerial Missile System (LMAMS) capability is required to fulfill Joint Operational Needs Statements (JUONs) and maintain training asset inventory in support of Joint Urgent Operational Need CC-0556, AC-0008, AF-0009, and other emerging urgent requirements.

FY 2023 Base procurement dollars in the amount of \$37.937 million supports the procurement of 525 All Up Rounds (AUR), 11 Fire Control Units, 152 Inert Training Rounds, 11 Training Simulators, 7 Multi-pack Launchers, of which \$7.495 million is for combat expenses in support of Operation Enduring Sentinel (BBES) and \$30.442 million is for combat expenses in support of Operation Inherent Resolve (BBIR)Funding decrease from FY22 to FY23 is due to reduced replenishment requirement.

Funding decrease from FY22 to FY23 is due to reduced replenishment requirement.

The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to increase the Army procurement of LMAMS AURs and/or additional Fire Control Units, Training Rounds, Training Simulators, Multi-Pack Launchers and supporting equipment.

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30		P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)
		Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	849	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	221.240	-	61.408	37.937	-	37.937
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	221.240	-	61.408	37.937	-	37.937
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	221.240	-	61.408	37.937	-	37.937

(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)	260.589	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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 ^(†)	51.204	2,654	135.895	-	-	-	49.464	900	44.518	52.914	525	27.780	-	-	-	52.914	525	27.780
Inert Training Missiles	42.407	710	30.109	-	-	-	40.635	200	8.127	31.914	152	4.851	-	-	-	31.914	152	4.851
Training Simulators	25.197	117	2.948	-	-	-	26.617	60	1.597	25.909	11	0.285	-	-	-	25.909	11	0.285
Multi-Pack Launcher	81.000	17	1.377	-	-	-	69.143	7	0.484	70.571	7	0.494	-	-	-	70.571	7	0.494
Training Support Equipment	-	-	4.309	-	-	-	-	-	1.983	-	-	0.905	-	-	-	-	-	0.905
Fielding	-	-	26.351	-	-	-	-	-	1.116	-	-	1.153	-	-	-	-	-	1.153
Fire Control Units	24.930	129	3.216	-	-	-	24.183	60	1.451	30.727	11	0.338	-	-	-	30.727	11	0.338
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>204.205</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>59.276</i>	<i>-</i>	<i>-</i>	<i>35.806</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>35.806</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>204.205</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>59.276</i>	<i>-</i>	<i>-</i>	<i>35.806</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>35.806</i>
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	6.718	-	-	-	-	-	0.128	-	-	0.130	-	-	-	-	-	0.130
<i>Subtotal: Support - Acceptance Testing Cost</i>	<i>-</i>	<i>-</i>	<i>6.718</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.128</i>	<i>-</i>	<i>-</i>	<i>0.130</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.130</i>
Support - Program Management Cost																		
Government Management	-	-	10.317	-	-	-	-	-	2.004	-	-	2.001	-	-	-	-	-	2.001
<i>Subtotal: Support - Program Management Cost</i>	<i>-</i>	<i>-</i>	<i>10.317</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2.004</i>	<i>-</i>	<i>-</i>	<i>2.001</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2.001</i>

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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	260.589	849	221.240	-	-	-	-	-	61.408	-	-	37.937	-	-	-	-	-	37.937

Remarks:
 Funding decrease from FY22 to FY23 by \$30.341M is due to reduced replenishment requirements.
 The FY23 unit cost data is based on actual negotiated contract pricing.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	61.408	37.937	-	37.937
Total: Secondary Distribution	Quantity	-	-	-	-	-
	Total Obligation Authority	-	61.408	37.937	-	37.937

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army								Date: April 2022				
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30			P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)					Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)				
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 ^(†)		2022	TBD / TBD	SS / FFP	AMCOM, Redstone Arsenal, AL	Aug 2022	Apr 2023	900	49.464	Y		
All Up Rounds ^(†)		2023	AeroVironment / Simi Valley, CA	SS / FFP	AMCOM, Redstone Arsenal, AL	Mar 2023	Oct 2023	525	52.914	Y		

^(†) indicates the presence of a P-21

Remarks:
10 U.S. Code #2431 and DoD Financial Mgt Reg
Vol 2B, Ch4 mandate Production Rates be
defined in terms of ""budget year.""

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Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30		P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)
		Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	AeroVironment - Simi Valley, CA	600	1,500	3,000	1	1	5	6	1	1	5	6
2	TBD - TBD	600	1,500	3,000	1	1	5	6	1	1	5	6

Remarks:
 Production rates and lead times are based on historical data from current LMAMS vendor.

"A" in the Delivery Schedule indicates the Contract Award Date.

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 0932A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications	P-1 Line Item Number / Title: 0962C50700 / Patriot Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0607865A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,764.558	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,764.558	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,764.558	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684	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>)	83,588.737	27,805.000	-	-	-	-	-	-	-	-	Continuing	Continuing

Description:

This funding line is a key enabler of the Army Modernization Priorities in support of Air and Missile Defense.

The PATRIOT Mods program implements critical capability, readiness and sustainability modifications to the weapon system, maintains Integrated Logistics Support, and supports materiel solutions to counter cybersecurity and electronic warfare shortcomings to all elements of the Lower Tier Battle Space. Required modifications are identified through various means to include: validated requirement documents such as the Capability Production Document (CPD), Capabilities Development Document (CDD), 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 mitigation; emerging technologies; software improvements related to warfighter machine and crew interface requirements and communication upgrades.

Modifications outlined below are critical to maintain capabilities in the field for enduring PATRIOT components, or are critical in support of the transition to an Army Integrated Air and Missile Defense (AIAMD) in convergence efforts with the Integrated Battle Command System (IBCS).

FY23 PATRIOT Mods funding supports International Engineering Services Program (IESP); Integrated Logistics Support (ILS); US Unique Engineering Services (ES); System Engineering and Technical Analysis activities supporting Reliability, Availability, and Maintainability (RAM) Mods; Recapitalization (RECAP); Battery Command Post/ Tactical Command System /Computer Software Module (BCP/TCS/CSM) Mod; Communications Obsolescence Upgrade, (Dismounted) Patriot Information Coordination Central (DPICC), Assured Position, Navigation, and Timing (APNT), continued unit ONS fielding support while awaiting the Army standard solution, and Report Rocket Classification.

RAM modifications provide resolution to field failures which are identified through component analysis, field data collection, obsolescence issues and emerging technologies which are prioritized based on readiness and Operations and Support (O&S) impacts. This effort includes the engineering, acquisition, qualification testing, installation, technical support and training device upgrades associated with modification and design changes which are essential to stabilize the system at the highest readiness posture available and reduction of O&S. Kit quantity is based on expected Engineering Change Proposals (ECPs) to be applied to Major End Items (MEIs). Quantities will be procured at an optimized rate utilizing price advantage created through contract negotiation, other service procurement, and/or foreign military sales into a buy-to-budget procurement strategy.

Recapitalization (RECAP) Modifications (1 battalion/year) include critical upgrades including but not limited to: Family of Medium Tactical Vehicles (FMTV), PATRIOT-unique prime mover obsolescence mitigation, Depot Maintenance Plant Equipment (DMPE), Harmonic Generator Kits, Post Deployment Build 8.1 (PDB-8.1) and Patriot Component Software Build (PCSB) S/W & H/W, Cryptographic Modernization

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications		P-1 Line Item Number / Title: 0962C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0607865A
Line Item MDAP/MAIS Code: N/A		
<p>Kits, Missile Segment Enhancement (MSE) Launching station upgrades; Radar Digital Sidelobe Canceller upgrade, Radar Weapons Control Interface Unit (RWCIU) obsolescence mitigation, Radar Search/Track Microwave Front Ends modernization, Radar Peripheral Electronics Assembly (PEA) box modernization, Electronic Power Plant (EPP) obsolescence mitigation, and Cooling Liquid Electron Tube (CLET) kits. 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.</p> <p>Communications Obsolescence: Task is to replace obsolete PATRIOT communications equipment that is no longer supportable, with modern communications equipment for four PATRIOT Battalions. The fielded PATRIOT communications architecture utilizes obsolete serial technology that is no longer producible or repairable. This process requires modernization at battalion (BN) level to prevent breaking intra-BN communications, addresses the BN specific architecture to facilitate modern external and external communications. These measures provide an interim solution until transition to fleet-wide AIAMD system architecture is achieved, and is an essential step to keep the remainder of the fleet viable until it is fully replaced with AIAMD components.</p> <p>Dismounted Patriot Information Coordination Central (DPICC) effort rehosts tactical Patriot software maintained via engineering services to a smaller, more mobile hardware configuration that will allow flexible, tailorable deployment options by freeing up Battalion level ICC's.</p> <p>Assured Position, Navigation and Timing (PNT) - Purchases integrated Project Manager (PM) PNT M-code capable hardware for integration on Patriot Major End Items (MEI). Effort supports mandated FY2011 National Defense Authorization Act; public law 111-383 Sec. 913.</p> <p>The Air Defense Interrogator (ADI) TPX-57 uses an Interrogator Reply Processor (IRP) card that is obsolete. The IRP card does not allow for software/hardware upgrades to the ADI. Once the spares in the field are absorbed the radar will become non mission capable (NMC). To mitigate the obsolescence and to be compliant to the Position, Navigation, and Timing (PNT) Reference Architecture (RA) v1.0, Patriot will begin integration of the AN/TPX-61(V)1 Identify Friend or Foe (IFF) interrogator which was defined in the Patriot Assured PNT Strategy document to be the next generation upgrade for the ADI TPX. The AN/TPX-61 will use an M-Code Global Positioning System (GPS) Receiver and standard Fixed Reception Pattern Antenna (FRPA). The AN/TPX-61 allows for potential upgrades, such as an Anti-Jam antenna and Alternate Navigation (AltNav).</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 62 Battery Command Posts and 17 Tactical Command Systems. Additionally, this effort supports the BCP/TCS/CSM fielding upgrades for each PATRIOT Post Deployment Build update. Note: Quantities procured and installed in prior years.</p> <p>PATRIOT's IESP is a US chartered multi-national cost sharing program which allows the current 16 FMS partners to contribute toward common, non-RDTE engineering activities required to sustain PATRIOT capability. This cost share program structure is at a ratio of 2:1 FMS dollars to USD investment. Consolidated funds provide essential engineering services toward enhancing PATRIOT fleet readiness for both the United States Army and International partners. Significant cost avoidance is achieved by sharing expenses that would otherwise be fully funded by the United States to achieve the same result.</p> <p>Logistics Recurring includes all aspects of Integrated Logistics Support (ILS) management, e.g., maintenance support, facilities, personnel, training, testing, and fielding.</p> <p>Report Rocket Classification: The modern Air and Missile Defense environment contains a wide variety and large quantities of TBM and rocket threats. This task provides situational awareness for operators and allows for greater efficiency in management of interceptor inventories in the complex AMD environment.</p> <p>Patriot Multi-Echelon Training (PMET): 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).</p> <p>The PATRIOT Launching Station is a mobile tactical element of the PATRIOT Firing Battery. It is used to transport, aim, and launch various types of PATRIOT family guided missiles.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army							Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications					P-1 Line Item Number / Title: 0962C50700 / Patriot Mods					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: 0607865A				
Line Item MDAP/MAIS Code: N/A										

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications	P-1 Line Item Number / Title: 0962C50700 / Patriot Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0607865A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C50700 / Patriot Mods (Various)				- / 4,764.558	- / 278.050	- / 205.469	- / 253.689	- / -	- / 253.689
P-40	Total Gross/Weapon System Cost				- / 4,764.558	- / 278.050	- / 205.469	- / 253.689	- / -	- / 253.689

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C50700 / Patriot Mods (Various)				- / 215.425	- / 182.062	- / 809.071	- / 820.684	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 215.425	- / 182.062	- / 809.071	- / 820.684	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY2023 procurement dollars in the amount of \$253.689 million support the modifications for Reliability, Availability, and Maintainability Modifications (RAM Mods), Recapitalization (RECAP), Battery Command Post/ Tactical Command System/ Computer Software Module (BCP/TCS/CSM), PATRIOT Radar Digital Exciter, Report Rocket Classification, Assured PNT, the Dismounted Information Coordination Central, the Tactical Planner Workstation Augmentation, Communications Obsolescence, PMET of which \$67.000 million is for the Base Pacific Deterrence Initiative (BPDI)-Modernized and Strengthened Presence supports the procurement of 6 launchers. The Air Defense Interrogator (ADI) TPX 57 Obsolescence, IESP, system engineering, program management, launcher hardware and continued unit ONS fielding support while awaiting the Army standard solution, and logistics support.
 PATRIOT Mods supports and facilitates enhanced capabilities and integration into the Integrated Air and Missile Defense (IAMD) architecture.

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Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 0962C50700 / Patriot Mods	Modification Number / Title: C50700 / Patriot Mods

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,764.558	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,764.558	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,764.558	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684	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>)	83,588.737	27,805.000	-	-	-	-	-	-	-	-	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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684

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Exhibit P-3a, Individual Modification: PB 2023 Army										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10					P-1 Line Item Number / Title: 0962C50700 / Patriot Mods					Modification Number / Title: C50700 / Patriot Mods			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Various				Modification Type: Various				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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 28: RAM Mods													
A Kits													
Recurring													
Kit Quantity	6,963 / 732.180	153 / 23.519	118 / 18.118	132 / 20.396	- / -	132 / 20.396	103 / 15.864	113 / 18.166	122 / 18.186	102 / 15.762	Continuing	Continuing	
Training	- / 122.658	- / 16.656	- / 15.852	- / 14.961	- / -	- / 14.961	- / 3.859	- / 4.419	- / 4.424	- / 3.833	Continuing	Continuing	
Training Equipment	- / 35.909	- / 3.332	- / 3.092	- / 3.859	- / -	- / 3.859	- / 3.002	- / 3.437	- / 3.440	- / 2.982	Continuing	Continuing	
Support Equipment	- / 71.061	- / 8.661	- / 8.911	- / 9.372	- / -	- / 9.372	- / 7.289	- / 8.347	- / 8.355	- / 7.242	Continuing	Continuing	
Fielding Support and NET	- / 124.632	- / 14.658	- / 14.385	- / 14.883	- / -	- / 14.883	- / 11.577	- / 13.256	- / 32.200	- / 55.183	Continuing	Continuing	
Integrated Logistics Support	- / 14.620	- / 1.332	- / 2.072	- / 1.654	- / -	- / 1.654	- / 1.286	- / 1.473	- / 1.475	- / 1.278	Continuing	Continuing	
Subtotal: Recurring	6,963 / 1,101.060	153 / 68.158	118 / 62.430	132 / 55.125	- / -	132 / 55.125	103 / 42.877	113 / 49.098	122 / 68.080	102 / 86.280	Continuing	Continuing	
Subtotal: RAM Mods	6,963 / 1,101.060	153 / 68.158	118 / 62.430	132 / 55.125	- / -	132 / 55.125	103 / 42.877	113 / 49.098	122 / 68.080	102 / 86.280	Continuing	Continuing	
Modification Item 2 of 28: Recapitalization													
A Kits													
Recurring													
Kit Quantity	17 / 273.601	1 / 14.104	1 / 14.300	1 / 10.380	- / -	1 / 10.380	1 / 9.170	1 / 10.991	1 / 9.156	1 / 7.776	Continuing	Continuing	
Integrated Logistics Support	- / 21.158	- / 1.100	- / 1.200	- / 0.920	- / -	- / 0.920	- / 0.797	- / 0.956	- / 0.796	- / 0.676	Continuing	Continuing	
Subtotal: Recurring	17 / 294.759	1 / 15.204	1 / 15.500	1 / 11.300	- / -	1 / 11.300	1 / 9.967	1 / 11.947	1 / 9.952	1 / 8.452	Continuing	Continuing	
Subtotal: Recapitalization	17 / 294.759	1 / 15.204	1 / 15.500	1 / 11.300	- / -	1 / 11.300	1 / 9.967	1 / 11.947	1 / 9.952	1 / 8.452	Continuing	Continuing	
Modification Item 3 of 28: PATRIOT Radar Digital Exciter (DEX)													
A Kits													
Recurring													
PATRIOT Radar Digital Exciter (DEX)	- / -	- / -	- / -	- / 10.000	- / -	- / 10.000	- / 10.000	- / 10.000	- / 10.000	- / 10.000	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / 10.000	- / -	- / 10.000	- / 10.000	- / 10.000	- / 10.000	- / 10.000	Continuing	Continuing	
Subtotal: PATRIOT Radar Digital Exciter (DEX)	- / -	- / -	- / -	- / 10.000	- / -	- / 10.000	- / 10.000	- / 10.000	- / 10.000	- / 10.000	Continuing	Continuing	
Modification Item 4 of 28: Communications Obsolescence													
A Kits													
Recurring													
Kits	1 / 20.906	1 / 30.684	2 / 20.678	1 / 18.503	- / -	1 / 18.503	- / 1.800	- / 8.763	- / -	- / -	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2023 Army										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10					P-1 Line Item Number / Title: 0962C50700 / Patriot Mods					Modification Number / Title: C50700 / Patriot Mods			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Various				Modification Type: Various				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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)	
<i>Subtotal: Recurring</i>	1 / 20.906	1 / 30.684	2 / 20.678	1 / 18.503	- / -	1 / 18.503	- / 1.800	- / 8.763	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Communications Obsolescence</i>	1 / 20.906	1 / 30.684	2 / 20.678	1 / 18.503	- / -	1 / 18.503	- / 1.800	- / 8.763	- / -	- / -	Continuing	Continuing	
Modification Item 5 of 28: ADI TPX 57 Obsolescence													
A Kits													
Non-Recurring													
ADI TPX	- / -	- / -	- / -	- / 18.000	- / -	- / 18.000	- / -	- / -	- / -	- / -	- / -	- / 18.000	
<i>Subtotal: Non-Recurring</i>	- / -	- / -	- / -	- / 18.000	- / -	- / 18.000	- / -	- / -	- / -	- / -	- / -	- / 18.000	
<i>Subtotal: ADI TPX 57 Obsolescence</i>	- / -	- / -	- / -	- / 18.000	- / -	- / 18.000	- / -	- / -	- / -	- / -	- / -	- / 18.000	
Modification Item 6 of 28: Dismounted Information Coordination Central													
B Kits													
Non-Recurring													
Dismounted Information Coordination Cent	3 / 30.346	- / -	- / -	- / 14.324	- / -	- / 14.324	- / 7.371	- / 17.459	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	3 / 30.346	- / -	- / -	- / 14.324	- / -	- / 14.324	- / 7.371	- / 17.459	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Dismounted Information Coordination Central</i>	3 / 30.346	- / -	- / -	- / 14.324	- / -	- / 14.324	- / 7.371	- / 17.459	- / -	- / -	Continuing	Continuing	
Modification Item 7 of 28: BCP/TCS/CSM													
A Kits													
Recurring													
Engineering Change Orders	- / 5.155	- / 0.770	- / 0.770	- / 0.341	- / -	- / 0.341	- / 0.770	- / 0.770	- / 0.577	- / 0.500	Continuing	Continuing	
Fielding Support	- / 7.899	- / 0.980	- / 0.980	- / 0.434	- / -	- / 0.434	- / 0.980	- / 0.980	- / 0.735	- / 0.637	Continuing	Continuing	
Obsolescence/Tech Refresh	- / 1.853	- / 0.280	- / 0.280	- / 0.124	- / -	- / 0.124	- / 0.280	- / 0.280	- / 0.211	- / 0.183	Continuing	Continuing	
Software/Systems Engineering	- / 32.620	- / 0.980	- / 0.980	- / 0.434	- / -	- / 0.434	- / 0.980	- / 0.980	- / 0.735	- / 0.637	Continuing	Continuing	
Integrated Logistics Support	- / 58.170	- / 3.990	- / 3.990	- / 1.767	- / -	- / 1.767	- / 2.990	- / 3.640	- / 2.992	- / 2.593	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 105.697	- / 7.000	- / 7.000	- / 3.100	- / -	- / 3.100	- / 6.000	- / 6.650	- / 5.250	- / 4.550	Continuing	Continuing	
Non-Recurring													
BCP Kit Quantity	62 / 29.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 29.435	
<i>Subtotal: Non-Recurring</i>	62 / 29.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 29.435	
<i>Subtotal: BCP/TCS/CSM</i>	62 / 135.132	- / 7.000	- / 7.000	- / 3.100	- / -	- / 3.100	- / 6.000	- / 6.650	- / 5.250	- / 4.550	Continuing	Continuing	
Modification Item 8 of 28: Tactical Planner Workstation Augmentation Support													
B Kits													
Non-Recurring													

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Exhibit P-3a, Individual Modification: PB 2023 Army											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10				P-1 Line Item Number / Title: 0962C50700 / Patriot Mods				Modification Number / Title: C50700 / Patriot Mods					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Various				Modification Type: Various				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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)	
TPW Augmentation Spt	- / -	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 0.200	- / 0.190	- / 0.150	- / 0.130	Continuing	Continuing	
<i>Subtotal: Non-Recurring</i>	- / -	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 0.200	- / 0.190	- / 0.150	- / 0.130	Continuing	Continuing	
<i>Subtotal: Tactical Planner Workstation Augmentation Support</i>	- / -	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 0.200	- / 0.190	- / 0.150	- / 0.130	Continuing	Continuing	
Modification Item 9 of 28: International Engineering Services Program (IESP)													
A Kits													
Recurring													
International Engineering Services Prog	- / -	- / 159.000	- / 159.000	- / 38.000	- / -	- / 38.000	- / 40.410	- / 41.905	- / 45.505	- / 45.505	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / -	- / 159.000	- / 159.000	- / 38.000	- / -	- / 38.000	- / 40.410	- / 41.905	- / 45.505	- / 45.505	Continuing	Continuing	
<i>Subtotal: International Engineering Services Program (IESP)</i>	- / -	- / 159.000	- / 159.000	- / 38.000	- / -	- / 38.000	- / 40.410	- / 41.905	- / 45.505	- / 45.505	Continuing	Continuing	
Modification Item 10 of 28: Logistics Recurring													
A Kits													
Recurring													
Logistics Support	- / -	- / 127.091	- / 127.561	- / 19.137	- / -	- / 19.137	- / 27.000	- / 25.650	- / 20.656	- / 17.901	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / -	- / 127.091	- / 127.561	- / 19.137	- / -	- / 19.137	- / 27.000	- / 25.650	- / 20.656	- / 17.901	Continuing	Continuing	
<i>Subtotal: Logistics Recurring</i>	- / -	- / 127.091	- / 127.561	- / 19.137	- / -	- / 19.137	- / 27.000	- / 25.650	- / 20.656	- / 17.901	Continuing	Continuing	
Modification Item 11 of 28: Report Rocket Classification													
A Kits													
Non-Recurring													
Kits	- / 4.011	- / 6.000	- / 6.000	- / 6.000	- / -	- / 6.000	- / -	- / -	- / -	- / -	- / -	- / 22.011	
<i>Subtotal: Non-Recurring</i>	- / 4.011	- / 6.000	- / 6.000	- / 6.000	- / -	- / 6.000	- / -	- / -	- / -	- / -	- / -	- / 22.011	
<i>Subtotal: Report Rocket Classification</i>	- / 4.011	- / 6.000	- / 6.000	- / 6.000	- / -	- / 6.000	- / -	- / -	- / -	- / -	- / -	- / 22.011	
Modification Item 12 of 28: PATRIOT Maintenance Trainer (PMT)													
A Kits													
Recurring													
Kit Quantity	7 / 107.441	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Recurring</i>	7 / 107.441	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Non-Recurring													
Training Support	- / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.000	

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Exhibit P-3a, Individual Modification: PB 2023 Army										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10					P-1 Line Item Number / Title: 0962C50700 / Patriot Mods					Modification Number / Title: C50700 / Patriot Mods		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: Various				Modification Type: Various				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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)
<i>Subtotal: Non-Recurring</i>	- / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.000
<i>Subtotal: PATRIOT Maintenance Trainer (PMT)</i>	7 / 111.441	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Modification Item 13 of 28: PATRIOT Multi-Echelon Training (PMET)												
A Kits												
Recurring												
Kit Quantity	24 / 33.180	4 / 7.000	3 / 6.000	1 / 1.500	- / -	1 / 1.500	- / 1.500	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: Recurring</i>	24 / 33.180	4 / 7.000	3 / 6.000	1 / 1.500	- / -	1 / 1.500	- / 1.500	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: PATRIOT Multi-Echelon Training (PMET)</i>	24 / 33.180	4 / 7.000	3 / 6.000	1 / 1.500	- / -	1 / 1.500	- / 1.500	- / -	- / -	- / -	Continuing	Continuing
Modification Item 14 of 28: SNAP/TROPO												
A Kits												
Recurring												
Kit Quantity SNAP	6 / 0.830	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.830
Support	- / 8.041	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.041
Integrated Logistics Support	- / 3.993	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.993
Training	- / 0.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.175
Equipment	- / 0.859	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.859
<i>Subtotal: Recurring</i>	6 / 13.898	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 13.898
Non-Recurring												
Kit Quantity TROPO	26 / 12.884	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 12.884
<i>Subtotal: Non-Recurring</i>	26 / 12.884	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 12.884
<i>Subtotal: SNAP/TROPO</i>	32 / 26.782	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 26.782
Modification Item 15 of 28: Enhanced Launcher Electronics System (ELES)												
A Kits												
Recurring												
Kit Quantity	365 / 572.396	10 / 40.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	375 / 613.113
<i>Subtotal: Recurring</i>	365 / 572.396	10 / 40.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	375 / 613.113
<i>Subtotal: Enhanced Launcher Electronics System (ELES)</i>	365 / 572.396	10 / 40.717	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	375 / 613.113
Modification Item 16 of 28: Digital Sidelobe Canceller (DSLCL)												
A Kits												

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Exhibit P-3a, Individual Modification: PB 2023 Army										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10				P-1 Line Item Number / Title: 0962C50700 / Patriot Mods						Modification Number / Title: C50700 / Patriot Mods		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: Various			Modification Type: Various					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Recurring												
Kit Quantity	81 / 180.382	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	81 / 180.382
<i>Subtotal: Recurring</i>	81 / 180.382	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	81 / 180.382
<i>Subtotal: Digital Sidelobe Cancellor (DSLCL)</i>	81 / 180.382	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	81 / 180.382
Modification Item 17 of 28: Command Obsolescence Alleviation												
A Kits												
Recurring												
Command Obsolescence Alleviation	- / 8.989	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.989
<i>Subtotal: Recurring</i>	- / 8.989	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.989
<i>Subtotal: Command Obsolescence Alleviation</i>	- / 8.989	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.989
Modification Item 18 of 28: MAP/RDP Encryption Compliance												
A Kits												
Non-Recurring												
Certification	- / 11.999	- / 11.996	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.995
<i>Subtotal: Non-Recurring</i>	- / 11.999	- / 11.996	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.995
<i>Subtotal: MAP/RDP Encryption Compliance</i>	- / 11.999	- / 11.996	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.995
Modification Item 19 of 28: IFF Antenna Redesign												
A Kits												
Non-Recurring												
Kits	18 / 8.000	9 / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 12.000
<i>Subtotal: Non-Recurring</i>	18 / 8.000	9 / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 12.000
<i>Subtotal: IFF Antenna Redesign</i>	18 / 8.000	9 / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 12.000
Modification Item 20 of 28: Combined Crypto Modification Phase I (CCMPI)												
A Kits												
Recurring												
Kit Quantity	150 / 48.970	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 48.970
Kit Quantity (GFE)	- / 1.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.072
<i>Subtotal: Recurring</i>	150 / 50.042	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 50.042
Non-Recurring												

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Exhibit P-3a, Individual Modification: PB 2023 Army										Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10				P-1 Line Item Number / Title: 0962C50700 / Patriot Mods						Modification Number / Title: C50700 / Patriot Mods		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: Various				Modification Type: Various				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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	- / 0.396	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.396
<i>Subtotal: Non-Recurring</i>	- / 0.396	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.396
<i>Subtotal: Combined Crypto Modification Phase I (CCMP)</i>	150 / 50.438	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 50.438
Modification Item 21 of 28: Radar Digital Processor - Configuration (RDP-C)												
A Kits												
Recurring												
Kit Quantity	80 / 240.766	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 240.766
Fielding	- / 14.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.000
Support Equipment	- / 36.942	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 36.942
<i>Subtotal: Recurring</i>	80 / 291.708	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 291.708
<i>Subtotal: Radar Digital Processor - Configuration (RDP-C)</i>	80 / 291.708	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 291.708
Modification Item 22 of 28: Air Defense Artillery School Upgrades/ TADSS												
A Kits												
Recurring												
Radar Kit Quantity	4 / 96.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 96.000
<i>Subtotal: Recurring</i>	4 / 96.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 96.000
<i>Subtotal: Air Defense Artillery School Upgrades/ TADSS</i>	4 / 96.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 96.000
Modification Item 23 of 28: Modern Manstation (MMS)												
A Kits												
Recurring												
Fielding	- / 7.825	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.825
Support Equipment	- / 56.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 56.567
<i>Subtotal: Recurring</i>	- / 64.392	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 64.392
Non-Recurring												
Kit Quantity	82 / 55.842	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / 55.842
<i>Subtotal: Non-Recurring</i>	82 / 55.842	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / 55.842
<i>Subtotal: Modern Manstation (MMS)</i>	82 / 120.234	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / 120.234
Modification Item 24 of 28: Reconfigurable Table Top Trainers (RT3)												

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Exhibit P-3a, Individual Modification: PB 2023 Army										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10					P-1 Line Item Number / Title: 0962C50700 / Patriot Mods					Modification Number / Title: C50700 / Patriot Mods			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Various				Modification Type: Various				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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)	
A Kits													
Recurring													
Kit Quantity	489 / 31.338	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	489 / 31.338	
Subtotal: Recurring	489 / 31.338	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	489 / 31.338	
Subtotal: Reconfigurable Table Top Trainers (RT3)	489 / 31.338	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	489 / 31.338	
Modification Item 25 of 28: Assured PNT													
A Kits													
Recurring													
Hardware Integration	798 / 3.000	- / -	- / -	50 / 0.200	- / -	50 / 0.200	- / -	2,575 / 9.100	5,033 / 15.100	4,033 / 12.100	- / -	12,489 / 39.500	
Subtotal: Recurring	798 / 3.000	- / -	- / -	50 / 0.200	- / -	50 / 0.200	- / -	2,575 / 9.100	5,033 / 15.100	4,033 / 12.100	- / -	12,489 / 39.500	
Subtotal: Assured PNT	798 / 3.000	- / -	- / -	50 / 0.200	- / -	50 / 0.200	- / -	2,575 / 9.100	5,033 / 15.100	4,033 / 12.100	- / -	12,489 / 39.500	
Modification Item 26 of 28: Test Detachment													
A Kits													
Recurring													
Equipment	1 / 56.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 56.000	
Subtotal: Recurring	1 / 56.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 56.000	
Subtotal: Test Detachment	1 / 56.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 56.000	
Modification Item 27 of 28: Launcher Hardware													
A Kits													
Recurring													
Launcher Hardware	- / -	- / -	- / -	6 / 67.000	- / -	6 / 67.000	6 / 67.000	- / -	- / -	- / -	- / -	12 / 134.000	
Subtotal: Recurring	- / -	- / -	- / -	6 / 67.000	- / -	6 / 67.000	6 / 67.000	- / -	- / -	- / -	- / -	12 / 134.000	
Subtotal: Launcher Hardware	- / -	- / -	- / -	6 / 67.000	- / -	6 / 67.000	6 / 67.000	- / -	- / -	- / -	- / -	12 / 134.000	
Modification Item 28 of 28: Additional Battalion of Warfighting Capability													
A Kits													
Recurring													
Additional Battalion	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 633.078	- / 634.466	- / -	- / 1,267.544	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 633.078	- / 634.466	- / -	- / 1,267.544	
Subtotal: Additional Battalion of Warfighting Capability	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 633.078	- / 634.466	- / -	- / 1,267.544	
Subtotal: Procurement, All Modification Items	9,177 / 3,188.101	178 / 276.850	124 / 204.169	191 / 252.389	- / -	191 / 252.389	110 / 214.125	2,689 / 180.762	5,156 / 807.771	4,136 / 819.384	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 0962C50700 / Patriot Mods	Modification Number / Title: C50700 / Patriot Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: Various	Modification Type: Various	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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)
Installation												
<i>Modification Item 1 of 28:</i> RAM Mods	6,921 / 151.613	149 / -	135 / -	130 / -	- / -	130 / -	140 / -	151 / -	- / -	- / -	Continuing	Continuing
<i>Modification Item 2 of 28:</i> Recapitalization	17 / 230.230	1 / 1.200	1 / 1.300	1 / 1.300	- / -	1 / 1.300	1 / 1.300	1 / 1.300	1 / 1.300	- / 1.300	Continuing	Continuing
<i>Modification Item 7 of 28:</i> BCP/TCS/CSM	79 / 1,192.582	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Modification Item 20 of 28:</i> Combined Crypto Modification Phase I (CCMPI)	150 / 2.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 2.032
<i>Subtotal: Installation</i>	7,167 / 1,576.457	150 / 1.200	136 / 1.300	131 / 1.300	- / -	131 / 1.300	141 / 1.300	152 / 1.300	1 / 1.300	- / 1.300	Continuing	Continuing
Total												
Total Cost (Procurement + Support + Installation)	4,764.558	278.050	205.469	253.689	-	253.689	215.425	182.062	809.071	820.684	Continuing	Continuing

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 0962C50700 / Patriot Mods	Modification Number / Title: C50700 / Patriot Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 28: RAM Mods

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Andover, MA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 14

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Dec 2020	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	
Delivery Dates	Feb 2022	Feb 2023	Feb 2024	Feb 2025	Feb 2026	Feb 2027	

Installation Information

Method of Implementation: Lead Logistics Fielding Team (Included in unit cost)

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	6,849 / 151.613	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2021	72 / 0.000	72 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 0.000
FY 2022	- / -	77 / 0.000	76 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	153 / 0.000
FY 2023	- / -	- / -	59 / 0.000	59 / 0.000	- / -	59 / 0.000	- / -	- / -	- / -	- / -	- / -	118 / 0.000
FY 2024	- / -	- / -	- / -	71 / 0.000	- / -	71 / 0.000	70 / 0.000	- / -	- / -	- / -	- / -	141 / 0.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	70 / 0.000	- / -	- / -	- / -	- / -	70 / 0.000
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 0.000	- / -	- / -	70 / 0.000	145 / 0.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 0.000	- / -	- / -	6,535 / 0.000	6,611 / 0.000
Total	6,921 / 151.613	149 / 0.000	135 / 0.000	130 / 0.000	- / -	130 / 0.000	140 / 0.000	151 / 0.000	- / -	- / -	Continuing	Continuing

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				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	7,050	31	41	41	40	40	37	36	36	32	32	32	32	29	28	29	28	29	28	28	28	31	30	31	30	-	-	-	-	6,463	14,292
Out	6,982	31	31	41	41	40	40	37	36	36	32	32	32	32	29	28	29	28	29	28	28	28	31	30	31	-	-	-	-	6,530	14,292

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Exhibit P-3a, Individual Modification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 0962C50700 / Patriot Mods	Modification Number / Title: C50700 / Patriot Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 2 of 28: Recapitalization

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12
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Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Apr 2021	Apr 2022	Apr 2023	Apr 2024	Apr 2025		
Delivery Dates	Apr 2022	Apr 2023	Apr 2024	Apr 2025	Apr 2026		

Installation Information

Method of Implementation: Depot, PM Office, contractor team (Included in unit cost)

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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	15 / 227.830	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2021	1 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2022	1 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2023	- / -	1 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2024	- / -	- / -	1 / 1.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2025	- / -	- / -	- / -	1 / 1.300	- / -	1 / 1.300	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.300	- / -	- / -	- / -	Continuing	Continuing
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.300	1 / 1.300	0 / 1.300	Continuing	Continuing
Total	17 / 230.230	1 / 1.200	1 / 1.300	1 / 1.300	- / -	1 / 1.300	1 / 1.300	1 / 1.300	1 / 1.300	0 / 1.300	Continuing	Continuing

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				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	17	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	11	34
Out	16	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	12	34

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 3 of 28: PATRIOT Radar Digital Exciter (DEX)							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Organic					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 4 of 28: Communications Obsolescence							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Andover, MA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 5			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jan 2021	Jan 2022	Jan 2023		Jan 2025		
Delivery Dates	Jun 2021	Jun 2022	Jun 2023		Jun 2025		
Installation Information							
Method of Implementation (Organic): TBD					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 5 of 28: ADI TPX 57 Obsolescence							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): TBD					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 6 of 28: Dismounted Information Coordination Central							
Manufacturer Information							
Manufacturer Name: N/A				Manufacturer Location: N/A			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Engineering Services (Included in unit cost)					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army	Date: April 2022
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Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 0962C50700 / Patriot Mods	Modification Number / Title: C50700 / Patriot Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 7 of 28: BCP/TCS/CSM

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
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Administrative Leadtime (in Months):	Production Leadtime (in Months):
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Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Various (Included in unit cost)

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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	79 / 1,192.582	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	79 / 1,192.582	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing

Installation Schedule

PYS	In	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				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		
	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79
	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 8 of 28: Tactical Planner Workstation Augmentation Support							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: Various			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Oct 2022	Oct 2023	Oct 2024	Oct 2025	
Delivery Dates			Oct 2022	Oct 2023	Oct 2024	Oct 2025	
Installation Information							
Method of Implementation (Organic): Various					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 9 of 28: International Engineering Services Program (IESP)							
Manufacturer Information							
Manufacturer Name: Multiple				Manufacturer Location: Various			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Various					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 10 of 28: Logistics Recurring							
Manufacturer Information							
Manufacturer Name: Logistics				Manufacturer Location: Huntsville, AL			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Various					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 11 of 28: Report Rocket Classification							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Andover, MA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 5			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jan 2021	Jan 2022	Jan 2023				
Delivery Dates	Jun 2021	Jun 2022	Jun 2023				
Installation Information							
Method of Implementation (Organic): PM Fielding Team (Included in Fielding cost)						Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: PB 2023 Army					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 12 of 28: 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 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Feb 2023	Feb 2024	Feb 2025		
Delivery Dates			Jun 2023	Jun 2024	Jun 2025		
Installation Information							
Method of Implementation (Organic): PM Office, Contractor Team					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 13 of 28: PATRIOT Multi-Echelon Training (PMET)							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Tewksbury, MA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 4			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Feb 2021	Feb 2022	Feb 2023	Feb 2024	Feb 2025	Feb 2026	
Delivery Dates	May 2021	May 2022	May 2023	May 2024	May 2025	May 2026	
Installation Information							
Method of Implementation (Organic): PM Office, Contractor Team (Included in unit cost)						Installation Quantity: 0	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 14 of 28: SNAP/TROPO							
Manufacturer Information							
Manufacturer Name: TeleCommunication Systems (TCS)				Manufacturer Location: Tampa, FL			
Administrative Leadtime (<i>in Months</i>): 1				Production Leadtime (<i>in Months</i>): 9			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Depot, PM, contractor team					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army					Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 15 of 28: Enhanced Launcher Electronics System (ELES)							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Dec 2020						
Delivery Dates	Jun 2022						
Installation Information							
Method of Implementation (Organic): Fielding Team (Included in unit cost)					Installation Quantity: 10		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 16 of 28: Digital Sidelobe Cancellor (DSLCL)							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Tewksbury, MA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Depot, PM Office, Contractor Team (Included in unit cost)					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 17 of 28: Command Obsolescence Alleviation							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 8				Production Leadtime (in Months): 5			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): PM Office, Contractor Team (Included in unit cost)					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 18 of 28: MAP/RDP Encryption Compliance							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Andover, MA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 5			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jan 2021						
Delivery Dates	Jun 2021						
Installation Information							
Method of Implementation (Organic): Contractor Team (Included in unit cost), PM Fielding Team						Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 19 of 28: IFF Antenna Redesign							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Andover, MA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months):			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Jan 2021						
Delivery Dates	Feb 2022						
Installation Information							
Method of Implementation (Organic): PM Fielding Team (Included in Fielding cost)					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 0962C50700 / Patriot Mods	Modification Number / Title: C50700 / Patriot Mods
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 20 of 28: Combined Crypto Modification Phase I (CCMPI)

Manufacturer Information

Manufacturer Name: OGA	Manufacturer Location: N/A
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: LEAD Logistics Fielding Team (Included in unit cost)

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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	150 / 2.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 2.032
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	150 / 2.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 2.032

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				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	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150
Out	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 21 of 28: 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 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Depot, PM Office, contractor team (Included in unit cost)					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 22 of 28: Air Defense Artillery School Upgrades/ TADSS							
Manufacturer Information							
Manufacturer Name: PM Office, contractor team				Manufacturer Location: Various			
Administrative Leadtime (<i>in Months</i>): 6				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): PM fielding team					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 23 of 28: Modern Manstation (MMS)							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Andover, MA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 15			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Various (Included in unit cost)					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 24 of 28: 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 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): PM Office, Contractor Team (Included in unit cost)					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 25 of 28: Assured PNT							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Tewksbury, MA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 14			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Logistics Fielding Team (Included in unit cost)					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 26 of 28: Test Detachment							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 8			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): WSMR PM owned test bed personnel					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 27 of 28: Launcher Hardware							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Andover, MA			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 24			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Feb 2023	Feb 2024			
Delivery Dates					Feb 2025	Feb 2026	
Installation Information							
Method of Implementation (Organic): PM Office Contractor					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 0962C50700 / Patriot Mods			Modification Number / Title: C50700 / Patriot Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 28 of 28: Additional Battalion of Warfighting Capability							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Andover, MA			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 36			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates						Jan 2026	
Delivery Dates						Jan 2029	
Installation Information							
Method of Implementation (Organic): PM Office, Contractor					Installation Quantity: 0		

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications	P-1 Line Item Number / Title: 1823CA6700 / ATACMS MODS
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203802A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	999.297	214.524	-	-	-	-	-	-	-	-	-	1,213.821
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	999.297	214.524	-	-	-	-	-	-	-	-	-	1,213.821
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	999.297	214.524	-	-	-	-	-	-	-	-	-	1,213.821

(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>)	2,031.091	975.109	-	-	-	-	-	-	-	-	-	1,704.805

Description:

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. The missile provides the Combatant Commanders with a 24/7 all-weather 300 kilometers (km) long-range fires capability to attack high-payoff, time-sensitive targets. ATACMS continues as the Commanders long range precision missile until fielding of the Army's objective system, Precision Strike Missile.

This procurement is related to the qualification program funded under Program Element (PE) 0203802A.

Block (BLK) I/IA missiles are aging beyond their service life and have warheads that are non-compliant with the Department of Defense (DoD) cluster munitions (CM) policy. This modification is performed as a Service Life Extension Program (SLEP) and will convert expired assets into Unitary HOB missiles with a reset 10 year service life. This modification replaces the existing M74 bomblets with a policy compliant unitary warhead, updates electronics and propellants, and adds a proximity sensor. This effort effectively brings the expired inventory back into service while meeting the DoD CM policy. Multi-mode seeker kits are also added for CD ATACMS missiles to engage moving maritime and land targets.

ATACMS modifications performed by Lockheed Martin Missiles and Fire Control, Grand Prairie, TX will stop production after FY 2021.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	214.524	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	214.524	-	-	-	-	-	-	-

Justification:

There is no funding in FY 2023.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications		P-1 Line Item Number / Title: 1823CA6700 / ATACMS MODS
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203802A
Line Item MDAP/MAIS Code: N/A		

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-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications	P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203801A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	206.424	13.942	11.227	-	-	-	-	-	-	-	-	231.593
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	206.424	13.942	11.227	-	-	-	-	-	-	-	-	231.593
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	206.424	13.942	11.227	-	-	-	-	-	-	-	-	231.593

(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>)	253.592	53.830	-	-	-	-	-	-	-	-	-	215.837

Description:

Avenger is a lightweight, ground-to-air missile and gun weapon system mounted on a High Mobility Multi-purpose Wheeled Vehicle. The system protects against unmanned aircraft systems, cruise missiles, and fixed and rotary wing threats. Avenger provides day/night adverse weather operations, shoot on the move capability, rapid target engagement, and remote firing capability. It can be air dropped, lifted by helicopter and is air transportable. The system employs up to eight Stinger missiles to counter aerial threats and a .50 Caliber Machine Gun (M3P) for close-in ground and air threats. An Identification Friend or Foe (IFF) system aids in the identification of friendly aircraft in order to minimize the potential for fratricide. The Avenger fleet of 453 systems includes 169 systems that are equipped with a digital Slew-to-Cue (STC) capability to speed target detection and engagement.

The Avenger Modification - Service Life Extension Program (MOD-SLEP) consists of Project 038: Avenger Production Improvement Program (PIP) and Program Element CE8710: Avenger MODS. The ongoing MOD-SLEP addresses obsolescence of Avenger components to ensure Avenger maintains operational capability through FY 2031. Five key MOD-SLEP components are: the Targeting Console (TC), the M3P, the Avenger Fire Control Computer (AFCC), the Mode 5 Identification Friend or Foe (IFF) and the Vehicle Internal Communications (VIC-5). Additional Obsolescence Mitigation Items include Avenger Organizational Maintenance Tool Kits, AN/PSM-95 Electronic Systems Test Set and the Avenger Remote Handheld Terminal Unit (RHTU) mounting kits.

The TC and AFCC are fielded to the 169 STC Avengers only. The M3P is fielded as spares through the supply system. The VIC-5 and Mode 5 IFF are fielded to all 453 of the Avenger systems.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.930	3.823	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.012	7.404	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.942	11.227	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications		P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0203801A
Line Item MDAP/MAIS Code: N/A		
Justification: The Avenger FY 2023 budget request is \$0.000 million. FY 2022 was the last year of funding. 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-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications	P-1 Line Item Number / Title: 3972C61700 / ITAS/TOW Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,799.972	5.666	4.561	5.154	-	5.154	-	-	-	-	-	1,815.353
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,799.972	5.666	4.561	5.154	-	5.154	-	-	-	-	-	1,815.353
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,799.972	5.666	4.561	5.154	-	5.154	-	-	-	-	-	1,815.353

(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) equipped with Modified ITAS (MITAS) 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. ITAS continues to be the weapon of choice in precision combat engagements.

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.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.166	4.561	5.154	-	5.154	-	-	-	-
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.500	-	-	-	-	-	-	-	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.666	4.561	5.154	-	5.154	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications **P-1 Line Item Number / Title:** 3972C61700 / ITAS/TOW Mods

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C61700 / ITAS/TOW Mods (NA)				- / 1,799.972	- / 5.666	- / 4.561	- / 5.154	- / -	- / 5.154
P-40	Total Gross/Weapon System Cost				- / 1,799.972	- / 5.666	- / 4.561	- / 5.154	- / -	- / 5.154

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C61700 / ITAS/TOW Mods (NA)				- / -	- / -	- / -	- / -	- / -	- / 1,815.353
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / -	- / -	- / 1,815.353

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

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

Justification:

FY2023 funding totals include \$5.154 Million in Base to procure 9 Precision Far Target Location (PFTL) Kits and procurement of 135 Lithium-ion Battery Boxes (LBB) for ITAS. This procurement will field a M-Code compatible Global Positioning System (GPS) receiver with Category 1 Target Location Error (TLE) capable far target location capability necessary for the employment of Precision Guided Munitions (PGM). The PFTL is currently being fielded to the Stryker Brigade Combat Teams (SBCT) as a part of the Stryker Anti-Tank Guided Missile (ATGM) vehicle lethality Engineering Change Proposal (ECP). This procurement will provide select Army units with similar capability as the SBCTs. The LBB incorporates increased safety features and a newly designed battery cell, with modern cell chemistry and structure, to increase the overall safety of the LBB. The funding also includes the installation and program management cost for this procurement.

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

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 3972C61700 / ITAS/TOW Mods	Modification Number / Title: C61700 / ITAS/TOW Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,799.972	5.666	4.561	5.154	-	5.154	-	-	-	-	-	1,815.353
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,799.972	5.666	4.561	5.154	-	5.154	-	-	-	-	-	1,815.353
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,799.972	5.666	4.561	5.154	-	5.154	-	-	-	-	-	1,815.353

(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)	-	-	-	-	-	-	-	-	-	-	-	-

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) equipped with Modified ITAS (MITAS) 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. ITAS continues to be the weapon of choice in precision combat engagements.

FY2023 funding totals include \$5.154 Million in Base to procure 9 Precision Far Target Location (PFTL) Kits and procurement of 135 Lithium-ion Battery Boxes (LBB) for ITAS. This procurement will field a M-Code compatible Global Positioning System (GPS) receiver with Category 1 Target Location Error (TLE) capable far target location capability necessary for the employment of Precision Guided Munitions (PGM). The PFTL is currently being fielded to the Stryker Brigade Combat Teams (SBCT) as a part of the Stryker Anti-Tank Guided Missile (ATGM) vehicle lethality Engineering Change Proposal (ECP). This procurement will provide select Army units with similar capability as the SBCTs. The LBB incorporates increased safety features and a newly designed battery cell, with modern cell chemistry and structure, to increase the overall safety of the LBB. The funding also includes the installation and program management cost for this procurement.

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.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.166	4.561	5.154	-	5.154	-	-	-	-
ANG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	2.500	-	-	-	-	-	-	-	-
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.666	4.561	5.154	-	5.154	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10				P-1 Line Item Number / Title: 3972C61700 / ITAS/TOW Mods						Modification Number / Title: C61700 / ITAS/TOW Mods			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: NA				Modification Type: NA				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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													
<i>Modification Item 1 of 1: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)</i>													
B Kits													
Recurring													
Kit Production	- / 1,418.985	37 / 5.231	10 / 1.438	9 / 1.225	- / -	9 / 1.225	- / -	- / -	- / -	- / -	- / -	56 / 1,426.879	
Fielding	- / 82.754	- / -	- / 0.026	- / 0.085	- / -	- / 0.085	- / -	- / -	- / -	- / -	- / -	- / 82.865	
Subcomponents	- / 0.302	- / -	28 / 0.700	135 / 3.240	- / -	135 / 3.240	- / -	- / -	- / -	- / -	- / -	163 / 4.242	
Data	- / 3.097	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.097	
<i>Subtotal: Recurring</i>	<i>- / 1,505.138</i>	<i>37 / 5.231</i>	<i>38 / 2.164</i>	<i>144 / 4.550</i>	<i>- / -</i>	<i>144 / 4.550</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>219 / 1,517.083</i>	
Non-Recurring													
Project Management	- / 125.684	- / 0.388	- / 0.312	- / 0.320	- / -	- / 0.320	- / -	- / -	- / -	- / -	- / -	- / 126.704	
Training Equipment	- / 86.835	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 86.835	
Prior Equipment - Kits	- / 82.235	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 82.235	
Engineering	- / -	- / -	- / 2.085	- / 0.284	- / -	- / 0.284	- / -	- / -	- / -	- / -	- / -	- / 2.369	
<i>Subtotal: Non-Recurring</i>	<i>- / 294.754</i>	<i>- / 0.388</i>	<i>- / 2.397</i>	<i>- / 0.604</i>	<i>- / -</i>	<i>- / 0.604</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 298.143</i>	
<i>Subtotal: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)</i>	<i>- / 1,799.892</i>	<i>37 / 5.619</i>	<i>38 / 4.561</i>	<i>144 / 5.154</i>	<i>- / -</i>	<i>144 / 5.154</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>219 / 1,815.226</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 1,799.892</i>	<i>37 / 5.619</i>	<i>38 / 4.561</i>	<i>144 / 5.154</i>	<i>- / -</i>	<i>144 / 5.154</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>219 / 1,815.226</i>	
Installation													
<i>Modification Item 1 of 1: ITAS (IMPROVED TARGET ACQUISITION SYSTEM)</i>													
	- / 0.080	37 / 0.047	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 0.127	
<i>Subtotal: Installation</i>	<i>- / 0.080</i>	<i>37 / 0.047</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>37 / 0.127</i>	
Total													
Total Cost (Procurement + Support + Installation)	1,799.972	5.666	4.561	5.154	-	5.154	-	-	-	-	-	1,815.353	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 3972C61700 / ITAS/TOW Mods	Modification Number / Title: C61700 / ITAS/TOW Mods
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

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): 12

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Mar 2021	Mar 2022	Mar 2023				
Delivery Dates	Mar 2022	Mar 2023	Mar 2024				

Installation Information

Method of Implementation: Contract

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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 / 0.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.080
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	18 / 0.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.023
FY 2023	- / -	19 / 0.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.024
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.080	37 / 0.047	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 0.127

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	9	9	9	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37
Out	-	-	-	-	-	-	-	9	9	9	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications	P-1 Line Item Number / Title: 6552C67500 / MLRS Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603778A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,435.185	330.419	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,435.185	330.419	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,435.185	330.419	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679	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>)	-	-	-	10,398.048	-	10,398.048	12,226.286	12,169.000	12,115.071	13,052.231	Continuing	Continuing

Description:

The M270A1 Multiple Launch Rocket System (MLRS) launcher is a full-spectrum, combat-proven, all-weather, 24/7 lethal and responsive, precision strike weapon system. MLRS launchers support the Army's number one priority modernization effort, Long Range Precision Fires. MLRS provides critical missile precision strike, operational shaping fires, counterfire, and close support destructive and suppressive fires. MLRS is a tracked, indirect fire, rocket/missile launcher capable of firing two pods of precision rockets/missiles from the current and emerging Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM), to include the Extended Range Guided Multiple Launch Rocket System (ER GMLRS), the Army Tactical Missile System (ATACMS), and the Precision Strike Missile (PrSM) in support of Integrated Fires and Multi-Domain Operations.

In FY2017, the Army directed the program office to modernize 160 obsolete, unserviceable MLRS M270A0s to M270A2s in an effort called MLRS Fleet Expansion. In addition to MLRS Fleet Expansion, the Army decided to extend the operational life of the existing M270A1 fleet to FY2050 or beyond, which drives the requirement to upgrade the current fleet of 190 M270A1 launchers to the M270A2 configuration. The end state is 350 MLRS launchers with Improved Armored Cabs (IAC), Bradley commonality improvements (Bradley Engineering Change Proposals (ECPs) 1, 2, and 3), and Common Fire Control System (CFCS). Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes an M270A2.

- Mod 1 (MLRS Fleet Expansion). The Fleet Expansion effort will modernize 160 MLRS M270A0s to M270A2s through a Public Private Partnership. The prime contractor and Red River Army Depot (RRAD) will rebuild, address obsolescence and provide selective upgrades to include IAC, Bradley commonality improvements), and CFCS. Mod Kit 1 funding ends in FY2022.
- Mod 2 (MLRS Fleet Upgrade). The MLRS Fleet upgrade effort will follow the same rebuild process and selective upgrades as the Fleet Expansion effort, by upgrading the current fleet of M270A1 launchers to M270A2 with IAC, Bradley commonality, and CFCS. Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes a M270A2. This upgrade effort will extend the operational life of these launchers to FY2050 and beyond. Mod Kit 2 funding began in FY2022.
- Mod 3 (Improved Armored Cab). The Improved Armored Cab (IAC) Modification Kit provides crew survivability against Improvised Explosive Devices (IEDs) and small arms fire greater than or equal to the High Mobility Artillery Rocket System (HIMARS) Increased Crew Protection Cab (ICP). Additionally, IAC standardizes crew drill requirements between HIMARS and MLRS operators. Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes a M270A2. RRAD performs the integration of the IAC under a Public Private Partnership as part of the MLRS Fleet Expansion effort.
- Mod 4 (APNT) (Assured Position, Navigation and Timing (APNT) Update). The APNT update will modernize 79 M270A2 Launchers. The remaining 271 M270A2 launchers to meet the AAO of 350 will be fielded with APNT and M-Code from the production line. The modernized hardware facilitates compliance with statutory requirements (M-Code) and improves system robustness against the GPS Jamming Threat (Anti-Jam).

The current Army Acquisition Objective is 225 MLRS launchers. The end state Army Acquisition Objective after Fleet Expansion will be 350 M270A2 MLRS launchers.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications	P-1 Line Item Number / Title: 6552C67500 / MLRS Mods
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603778A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	115.647	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	214.772	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	330.419	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications **P-1 Line Item Number / Title:** 6552C67500 / MLRS Mods

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0603778A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C67500 / MLRS Mods (.)				- / 1,435.185	- / 330.419	- / 273.856	- / 218.359	- / -	- / 218.359
P-40	Total Gross/Weapon System Cost				- / 1,435.185	- / 330.419	- / 273.856	- / 218.359	- / -	- / 218.359

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C67500 / MLRS Mods (.)				- / 171.168	- / 170.366	- / 169.611	- / 169.679	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 171.168	- / 170.366	- / 169.611	- / 169.679	Continuing	Continuing

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

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

Justification:
 FY 2023 procurement dollars in the amount of \$218.359 million procures 21 M270A2 MLRS launchers and 24 Improved Armored Cabs. Supports MLRS Fleet Upgrade (Mod 2) of 21 MLRS launchers from M270A1 configuration to M270A2 configuration. Procures 24 Improved Armored Cabs (21 production and 3 spares) (Mod 3). FY23 is the start of the APNT modernization effort for MLRS Fleet Expansion (Mod 4).

The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to continue the MLRS Fleet Upgrade (Mod 2) of MLRS launchers from M270A1 configuration to M270A2 configuration, and/or address obsolescence, modernization, cost reduction, and production initiatives. The Army will continue to incorporate modifications with the MLRS launcher to keep pace with the current and evolving threat.

MLRS MODS Funding decrease (\$55.497M) from FY2022 to FY2023 procures 9 fewer M270A2 launchers. The result is the Army will procure 21 Mod 2 M270A2 launchers in FY2023.

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

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Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 6552C67500 / MLRS Mods	Modification Number / Title: C67500 / MLRS Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,435.185	330.419	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,435.185	330.419	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,435.185	330.419	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679	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)	-	-	-	10,398.048	-	10,398.048	12,226.286	12,169.000	12,115.071	13,052.231	Continuing	Continuing

Description:

The M270A1 Multiple Launch Rocket System (MLRS) launcher is a full-spectrum, combat-proven, all-weather, 24/7 lethal and responsive, precision strike weapon system. MLRS launchers support the Army's number one priority modernization effort, Long Range Precision Fires. MLRS provides critical missile precision strike, operational shaping fires, counterfire, and close support destructive and suppressive fires. MLRS is a tracked, indirect fire, rocket/missile launcher capable of firing two pods of precision rockets/missiles from the current and emerging Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM), to include the Extended Range Guided Multiple Launch Rocket System (ER GMLRS), the Army Tactical Missile System (ATACMS), and the Precision Strike Missile (PrSM) in support of Integrated Fires and Multi-Domain Operations.

In FY2017, the Army directed the program office to modernize 160 obsolete, unserviceable MLRS M270A0s to M270A2s in an effort called MLRS Fleet Expansion. In addition to MLRS Fleet Expansion, the Army decided to extend the operational life of the existing M270A1 fleet to FY2050 or beyond, which drives the requirement to upgrade the current fleet of 190 M270A1 launchers to the M270A2 configuration. The end state is 350 MLRS launchers with Improved Armored Cabs (IAC), Bradley commonality improvements (Bradley Engineering Change Proposals (ECPs) 1, 2, and 3), and Common Fire Control System (CFCS). Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes an M270A2.

Mod 1 (MLRS Fleet Expansion). The Fleet Expansion effort will modernize 160 MLRS M270A0s to M270A2s through a Public Private Partnership. The prime contractor and Red River Army Depot (RRAD) will rebuild, address obsolescence and provide selective upgrades to include IAC, Bradley commonality improvements, and CFCS. Mod Kit 1 funding ends in FY2022.

Mod 2 (MLRS Fleet Upgrade). The MLRS Fleet upgrade effort will follow the same rebuild process and selective upgrades as the Fleet Expansion effort, by upgrading the current fleet of M270A1 launchers to M270A2 with IAC, Bradley commonality, and CFCS. Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes a M270A2. This upgrade effort will extend the operational life of these launchers to FY2050 and beyond. Mod Kit 2 funding began in FY2022.

Mod 3 (Improved Armored Cab). The Improved Armored Cab (IAC) Modification Kit provides crew survivability against Improvised Explosive Devices (IEDs) and small arms fire greater than or equal to the High Mobility Artillery Rocket System (HIMARS) Increased Crew Protection Cab (ICP). Additionally, IAC standardizes crew drill requirements between HIMARS and MLRS operators. Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes a M270A2. RRAD performs the integration of the IAC under a Public Private Partnership as part of the MLRS Fleet Expansion effort.

Mod 4 (APNT) (Assured Position, Navigation and Timing (APNT) Update). The APNT update will modernize 79 M270A2 Launchers. The remaining 271 M270A2 launchers to meet the AAO of 350 will be fielded with APNT and M-Code from the production line. The modernized hardware facilitates compliance with statutory requirements (M-Code) and improves system robustness against the GPS Jamming Threat (Anti-Jam).

The current Army Acquisition Objective is 225 MLRS launchers. The end state Army Acquisition Objective after Fleet Expansion will be 350 M270A2 MLRS launchers.

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Exhibit P-3a, Individual Modification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 6552C67500 / MLRS Mods	Modification Number / Title: C67500 / MLRS Mods
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

	Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	115.647	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	214.772	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	330.419	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army											Date: April 2022		
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10				P-1 Line Item Number / Title: 6552C67500 / MLRS Mods							Modification Number / Title: C67500 / MLRS Mods		
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: M270A1				Modification Type: .				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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: MLRS Fleet Expansion													
A Kits													
Recurring													
Obsolescence Mitigation (inactive)	- / 468.710	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 468.710	
System Engineering Program Management	- / 47.509	- / 16.525	- / 10.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 74.515	
Transmissions and Engines	- / 43.939	- / 16.383	- / 7.988	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 68.310	
M270A2 Launcher Fleet Expansion	94 / 623.099	40 / 249.978	26 / 162.329	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 1,035.406	
Fielding	- / -	- / -	- / 8.822	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.822	
Training	- / -	- / -	- / 4.057	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.057	
Subtotal: Recurring	94 / 1,183.257	40 / 282.886	26 / 193.677	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 1,659.820	
Non-Recurring													
Obsolescence Mitigation Bradley Chassis	- / 38.822	- / 7.871	- / 6.645	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 53.338	
Obsolescence Mitigation Fire Control Sys	- / 27.091	- / -	- / 1.296	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.387	
Launcher Risk Reduction	- / 17.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.417	
Government Testing	- / 1.383	- / 2.627	- / 0.865	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.875	
Initial Spares	- / 21.529	- / 8.172	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.701	
Training	- / 1.909	- / 6.693	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.602	
Subtotal: Non-Recurring	- / 108.151	- / 25.363	- / 8.806	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 142.320	
Subtotal: MLRS Fleet Expansion	94 / 1,291.408	40 / 308.249	26 / 202.483	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 1,802.140	
Modification Item 2 of 4: MLRS Fleet Upgrade													
A Kits													
Recurring													
System Engineering Program Management	- / -	- / -	- / 5.448	- / 16.248	- / -	- / 16.248	- / 16.573	- / 16.904	- / 17.242	- / 17.587	Continuing	Continuing	
Transmissions and Engines	- / -	- / -	- / 4.025	- / 10.524	- / -	- / 10.524	- / 7.314	- / 7.753	- / 8.218	- / 8.711	Continuing	Continuing	
M270A2 Launcher Upgrade	- / -	- / -	4 / 25.221	21 / 142.190	- / -	21 / 142.190	14 / 108.646	14 / 109.076	14 / 109.409	13 / 109.189	Continuing	Continuing	
Fielding	- / -	- / -	- / 3.202	- / 2.061	- / -	- / 2.061	- / 2.103	- / 2.145	- / 2.188	- / 2.231	Continuing	Continuing	
Training	- / -	- / -	- / 1.299	- / 1.319	- / -	- / 1.319	- / 1.009	- / 0.686	- / -	- / -	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	4 / 39.195	21 / 172.342	- / -	21 / 172.342	14 / 135.645	14 / 136.564	14 / 137.057	13 / 137.718	Continuing	Continuing	
Non-Recurring													
Obsolescence Mitigation Bradley Chassis	- / -	- / -	- / 0.928	- / 9.990	- / -	- / 9.990	- / 10.690	- / 10.610	- / 10.247	- / 10.098	Continuing	Continuing	
Obsolescence Mitigation Fire Control Sys	- / -	- / -	- / 0.199	- / 4.025	- / -	- / 4.025	- / 3.303	- / 3.162	- / 2.623	- / 2.289	Continuing	Continuing	
Government Testing	- / -	- / -	- / 0.133	- / 1.018	- / -	- / 1.018	- / 1.038	- / 1.059	- / 1.080	- / 1.102	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2023 Army										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10					P-1 Line Item Number / Title: 6552C67500 / MLRS Mods					Modification Number / Title: C67500 / MLRS Mods			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: M270A1				Modification Type: .				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	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)	
<i>Subtotal: Non-Recurring</i>	- / -	- / -	- / 1.260	- / 15.033	- / -	- / 15.033	- / 15.031	- / 14.831	- / 13.950	- / 13.489	Continuing	Continuing	
<i>Subtotal: MLRS Fleet Upgrade</i>	- / -	- / -	4 / 40.455	21 / 187.375	- / -	21 / 187.375	14 / 150.676	14 / 151.395	14 / 151.007	13 / 151.207	Continuing	Continuing	
Modification Item 3 of 4: Improved Armored Cab (IAC)													
A Kits													
Recurring													
Production	153 / 143.777	26 / 22.170	30 / 26.567	21 / 20.960	- / -	21 / 20.960	14 / 16.462	14 / 16.791	14 / 17.127	14 / 16.222	Continuing	Continuing	
IAC Spares	- / -	- / -	5 / 4.351	3 / 2.994	- / -	3 / 2.994	- / -	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Recurring</i>	153 / 143.777	26 / 22.170	35 / 30.918	24 / 23.954	- / -	24 / 23.954	14 / 16.462	14 / 16.791	14 / 17.127	14 / 16.222	Continuing	Continuing	
<i>Subtotal: Improved Armored Cab (IAC)</i>	153 / 143.777	26 / 22.170	35 / 30.918	24 / 23.954	- / -	24 / 23.954	14 / 16.462	14 / 16.791	14 / 17.127	14 / 16.222	Continuing	Continuing	
Modification Item 4 of 4: APNT													
A Kits													
Recurring													
APNT	- / -	- / -	- / -	32 / 7.030	- / -	32 / 7.030	18 / 4.030	11 / 2.180	7 / 1.477	11 / 2.250	- / -	79 / 16.967	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	32 / 7.030	- / -	32 / 7.030	18 / 4.030	11 / 2.180	7 / 1.477	11 / 2.250	- / -	79 / 16.967	
<i>Subtotal: APNT</i>	- / -	- / -	- / -	32 / 7.030	- / -	32 / 7.030	18 / 4.030	11 / 2.180	7 / 1.477	11 / 2.250	- / -	79 / 16.967	
<i>Subtotal: Procurement, All Modification Items</i>	247 / 1,435.185	66 / 330.419	65 / 273.856	77 / 218.359	- / -	77 / 218.359	46 / 171.168	39 / 170.366	35 / 169.611	38 / 169.679	Continuing	Continuing	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	1,435.185	330.419	273.856	218.359	-	218.359	171.168	170.366	169.611	169.679	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 6552C67500 / MLRS Mods			Modification Number / Title: C67500 / MLRS Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 4: MLRS Fleet Expansion							
Manufacturer Information							
Manufacturer Name: Lockheed Martin Missiles & Fire Control				Manufacturer Location: Camden, AR			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 28			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Apr 2021	Apr 2022					
Delivery Dates	Sep 2023	Aug 2024					
Installation Information							
Method of Implementation (Organic): Field Artillery Launchers Product Office					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 6552C67500 / MLRS Mods			Modification Number / Title: C67500 / MLRS Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 2 of 4: MLRS Fleet Upgrade							
Manufacturer Information							
Manufacturer Name: Lockheed Martin Missiles & Fire Control				Manufacturer Location: Camden, AR			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 28			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Apr 2022	Apr 2023	Apr 2024	Apr 2025	Apr 2026	Apr 2027
Delivery Dates		Dec 2024	Dec 2025	Dec 2026	Dec 2027	Dec 2028	Dec 2029
Installation Information							
Method of Implementation (Organic): Field Artillery Launchers Product Office					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 6552C67500 / MLRS Mods			Modification Number / Title: C67500 / MLRS Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 3 of 4: Improved Armored Cab (IAC)							
Manufacturer Information							
Manufacturer Name: Loc Performance Products, LLC				Manufacturer Location: Plymouth, MI			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 21			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	May 2021	May 2022	May 2023	May 2024	May 2025	May 2026	May 2027
Delivery Dates	May 2023	May 2024	May 2025	May 2026	May 2027	May 2028	May 2029
Installation Information							
Method of Implementation (Organic): Depot					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 6552C67500 / MLRS Mods			Modification Number / Title: C67500 / MLRS Mods	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 4 of 4: APNT							
Manufacturer Information							
Manufacturer Name: Strategic and Operational Rockets & Missiles				Manufacturer Location: Redstone Arsenal, AL			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 12			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027
Delivery Dates			Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028
Installation Information							
Method of Implementation (Organic): Field Artillery Launchers Product Office					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications	P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0210600A, 0603778A, 0210608A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	257.731	6.081	7.192	20.468	-	20.468	35.562	50.378	54.986	54.968	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	257.731	6.081	7.192	20.468	-	20.468	35.562	50.378	54.986	54.968	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	257.731	6.081	7.192	20.468	-	20.468	35.562	50.378	54.986	54.968	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>)	-	-	-	1,023.400	-	1,023.400	889.050	839.633	687.325	549.680	Continuing	Continuing

Description:

The M142 High Mobility Artillery Rocket System (HIMARS) launcher is a full spectrum, combat proven, all weather, 24/7 lethal and responsive, precision strike weapon system. HIMARS launchers support the Army's number one priority modernization effort, Long Range Precision Fires. HIMARS provides critical missile precision strike, operational shaping fires, counter-fire, and close support destructive and suppressive fires. HIMARS is a C-130 or C-17 transportable, wheeled, indirect fire, rocket/missile launcher capable of firing one pod of precision rockets/missiles from the current and future Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM), to include the Guided Multiple Launch Rocket System (GMLRS), Extended Range (ER) GMLRS, the Army Tactical Missile System (ATACMS), and the Precision Strike Missile in support of Integrated Fires and Multi-Domain Operations.

Mod 1 (M142 Mods). Modifications to address safety, operational-related, chassis, and Command, Control, Communications, Computer, and Intelligence (C4I) obsolescence issues within the HIMARS fleet. Additionally, procures system-specific training devices required to support the HIMARS Vehicle and Maintainer training courses.

Mod 2 (CFCS). Modifications to field the Common Fire Control System (CFCS) to the HIMARS Launcher fleet. CFCS replaces the obsolete Universal Fire Control System that cannot be procured as designed. CFCS will provide the capability to launch all current and future MFOM and provide an updated and more intuitive user interface that will be common to both HIMARS and MLRS launchers. CFCS will reduce training costs and operations and maintenance costs. The fielding of CFCS on the HIMARS Launcher fleet mitigates obsolescence issues. Mod Kit 2 (CFCS) funding begins in FY2024.

Mod 3 (APNT) (Assured Position, Navigation and Timing (APNT) Update). The APNT update will modernize fielded HIMARS Launchers. The modernized hardware facilitates compliance with statutory requirements (NavStrike-M) and improves system robustness against the GPS Jamming Threat (DIGAR).

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.789	2.091	20.468	-	20.468	35.562	50.378	54.986	54.968
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.292	5.101	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications	P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0210600A, 0603778A, 0210608A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	6.081	7.192	20.468	-	20.468	35.562	50.378	54.986	54.968

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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

P-1 Line Item Number / Title:
6580C67501 / HIMARS Modifications

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0210600A, 0603778A, 0210608A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C67501 / HIMARS Modifications (Operational, Reliability, Safety, Crew Survivability)				- / 257.731	- / 6.081	- / 7.192	- / 20.468	- / -	- / 20.468
P-40	Total Gross/Weapon System Cost				- / 257.731	- / 6.081	- / 7.192	- / 20.468	- / -	- / 20.468

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	C67501 / HIMARS Modifications (Operational, Reliability, Safety, Crew Survivability)				- / 35.562	- / 50.378	- / 54.986	- / 54.968	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 35.562	- / 50.378	- / 54.986	- / 54.968	Continuing	Continuing

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

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

Justification:

FY2023 Base procurement dollars in the amount of \$20.468 million support obsolescence mitigation and other design modifications of the M142 High Mobility Artillery Rocket System (HIMARS) fleet. HIMARS Modifications funding will include, but are not limited to, the following: updating the Family of Medium Tactical Vehicle carrier and the Launcher-Loader Module drawing packages and Technical Data Packages through the prime contractor and the government product office; updating the Interactive Electronic Technical Manuals for Soldiers to perform operator maintenance; upgrading the Diagnostic Trainers and HIMARS Mock-up Trainer due to obsolescence. Systems engineering efforts will address obsolescence issues and apply necessary modifications to the major HIMARS components of the Carrier, Launcher-Loader Module, and Fire Control System.

FY 2023 begins the APNT update that will modernize fielded HIMARS launchers. APNT kit is comprised of the NavStrike-M and the Digital GPS Anti-Jam Receiver (DIGAR). The modernized hardware facilitates compliance with statutory requirements (NavStrike-M) and improves system robustness against the GPS Jamming Threat (DIGAR). Base procurement dollars will also incorporate modifications to the HIMARS launcher to meet the current and evolving threat. NavStrike-M requires CFCS Kit (Mod 2) unique hardware in order to integrate into the HIMARS launcher.

HIMARS MODS Funding increase (\$13.276M) from FY2022 to FY2023 procures 145 DIGAR kits and addresses obsolescence mitigation activities such as safety, chassis, and operational related modifications in FY2023.

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

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications	Modification Number / Title: C67501 / HIMARS Modifications

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	257.731	6.081	7.192	20.468	-	20.468	35.562	50.378	54.986	54.968	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	257.731	6.081	7.192	20.468	-	20.468	35.562	50.378	54.986	54.968	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	257.731	6.081	7.192	20.468	-	20.468	35.562	50.378	54.986	54.968	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)	-	-	-	1,023.400	-	1,023.400	889.050	839.633	687.325	549.680	Continuing	Continuing

Description:

The M142 High Mobility Artillery Rocket System (HIMARS) launcher is a full spectrum, combat proven, all weather, 24/7 lethal and responsive, precision strike weapon system. HIMARS launchers support the Army's number one priority modernization effort, Long Range Precision Fires. HIMARS provides critical missile precision strike, operational shaping fires, counter-fire, and close support destructive and suppressive fires. HIMARS is a C-130 or C-17 transportable, wheeled, indirect fire, rocket/missile launcher capable of firing one pod of precision rockets/missiles from the current and future Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM), to include the Guided Multiple Launch Rocket System (GMLRS), Extended Range (ER) GMLRS, the Army Tactical Missile System (ATACMS), and the Precision Strike Missile in support of Integrated Fires and Multi-Domain Operations.

Mod 1 (M142 Mods). Modifications to address safety, operational-related, chassis, and Command, Control, Communications, Computer, and Intelligence (C4I) obsolescence issues within the HIMARS fleet. Additionally, procures system-specific training devices required to support the HIMARS Vehicle and Maintainer training courses.

Mod 2 (CFCS). Modifications to field the Common Fire Control System (CFCS) to the HIMARS Launcher fleet. CFCS replaces the obsolete Universal Fire Control System that cannot be procured as designed. CFCS will provide the capability to launch all current and future MFOM and provide an updated and more intuitive user interface that will be common to both HIMARS and MLRS launchers. CFCS will reduce training costs and operations and maintenance costs. The fielding of CFCS on the HIMARS Launcher fleet mitigates obsolescence issues. Mod Kit 2 (CFCS) funding begins in FY2024.

Mod 3 (APNT) (Assured Position, Navigation and Timing (APNT) Update). The APNT update will modernize fielded HIMARS Launchers. The modernized hardware facilitates compliance with statutory requirements (NavStrike-M) and improves system robustness against the GPS Jamming Threat (DIGAR).

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.789	2.091	20.468	-	20.468	35.562	50.378	54.986
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.292	5.101	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.081	7.192	20.468	-	20.468	35.562	50.378	54.986

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Exhibit P-3a, Individual Modification: PB 2023 Army										Date: April 2022			
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10					P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications					Modification Number / Title: C67501 / HIMARS Modifications			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 3: M142 Mods													
A Kits													
Recurring													
Program Management	- / 3.969	- / 1.262	- / 1.493	- / 1.523	- / -	- / 1.523	- / 1.553	- / 1.584	- / 1.616	- / 1.648	Continuing	Continuing	
Obsolescence Mitigation	- / 238.135	- / 2.552	- / 3.440	- / 4.584	- / -	- / 4.584	- / 4.855	- / 5.357	- / 5.752	- / 5.466	Continuing	Continuing	
Industrial Facilities	- / 2.143	- / 0.356	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Peculiar Support Equipment	- / 0.537	- / 0.089	- / 0.105	- / 0.140	- / -	- / 0.140	- / 0.148	- / 0.152	- / 0.155	- / 0.158	Continuing	Continuing	
Training	- / 2.025	- / 0.336	- / 0.397	- / 0.528	- / -	- / 0.528	- / 0.559	- / 0.574	- / 0.586	- / 0.598	Continuing	Continuing	
Test & Evaluation (Acceptance Testing)	- / 3.673	- / 0.609	- / 0.720	- / 0.958	- / -	- / 0.958	- / 1.013	- / 1.040	- / 1.061	- / 1.082	Continuing	Continuing	
Systems Engineering	- / 17.249	- / 0.877	- / 1.037	- / 1.860	- / -	- / 1.860	- / 2.221	- / 2.276	- / 2.303	- / 2.336	Continuing	Continuing	
Subtotal: Recurring	- / 257.731	- / 6.081	- / 7.192	- / 9.593	- / -	- / 9.593	- / 10.349	- / 10.983	- / 11.473	- / 11.288	Continuing	Continuing	
Subtotal: M142 Mods	- / 257.731	- / 6.081	- / 7.192	- / 9.593	- / -	- / 9.593	- / 10.349	- / 10.983	- / 11.473	- / 11.288	Continuing	Continuing	
Modification Item 2 of 3: CFCS Kit													
A Kits													
Recurring													
CFCS A Kit	- / -	- / -	- / -	- / -	- / -	- / -	10 / 7.838	44 / 35.200	53 / 43.248	52 / 43.420	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	10 / 7.838	44 / 35.200	53 / 43.248	52 / 43.420	Continuing	Continuing	
Subtotal: CFCS Kit	- / -	- / -	- / -	- / -	- / -	- / -	10 / 7.838	44 / 35.200	53 / 43.248	52 / 43.420	Continuing	Continuing	
Modification Item 3 of 3: APNT Kit													
A Kits													
Recurring													
DIGAR Kits	- / -	- / -	- / -	145 / 10.875	- / -	145 / 10.875	231 / 17.325	53 / 3.975	- / -	- / -	- / -	429 / 32.175	
NavStrike-M Kits	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.050	44 / 0.220	53 / 0.265	52 / 0.260	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	145 / 10.875	- / -	145 / 10.875	241 / 17.375	97 / 4.195	53 / 0.265	52 / 0.260	Continuing	Continuing	
Subtotal: APNT Kit	- / -	- / -	- / -	145 / 10.875	- / -	145 / 10.875	241 / 17.375	97 / 4.195	53 / 0.265	52 / 0.260	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 257.731	- / 6.081	- / 7.192	145 / 20.468	- / -	145 / 20.468	251 / 35.562	141 / 50.378	106 / 54.986	104 / 54.968	Continuing	Continuing	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													

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Exhibit P-3a, Individual Modification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications	Modification Number / Title: C67501 / HIMARS Modifications
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: M142 High Mobility Artillery Rocket System	Modification Type: Operational, Reliability, Safety, Crew Survivability	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	<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>
Total Cost (Procurement + Support + Installation)	257.731	6.081	7.192	20.468	-	20.468	35.562	50.378	54.986	54.968	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications			Modification Number / Title: C67501 / HIMARS Modifications	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 1 of 3: M142 Mods							
Manufacturer Information							
Manufacturer Name: Strategic and Operational Rocket & Missiles Project Office				Manufacturer Location: Redstone Arsenal, AL			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Field Artillery Launchers Product Office					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications			Modification Number / Title: C67501 / HIMARS Modifications	
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:		
Modification Item 2 of 3: CFCS Kit							
Manufacturer Information							
Manufacturer Name: Strategic and Operational Rocket & Missiles Project Office				Manufacturer Location: Redstone Arsenal, AL			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Field Artillery Launchers Product Office					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2023 Army						Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10			P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications			Modification Number / Title: C67501 / HIMARS Modifications	
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Modification Item 3 of 3: APNT Kit							
Manufacturer Information							
Manufacturer Name: Strategic and Operational Rockets & Missiles				Manufacturer Location: Redstone Arsenal, AL			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027
Delivery Dates			Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028
Installation Information							
Method of Implementation (Organic): Field Artillery Launchers Product Office						Installation Quantity: 0	

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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: 1242CA0250 / Spares And Repair Parts
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	383.963	5.090	5.019	6.508	-	6.508	6.688	6.803	6.771	6.773	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	383.963	5.090	5.019	6.508	-	6.508	6.688	6.803	6.771	6.773	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	383.963	5.090	5.019	6.508	-	6.508	6.688	6.803	6.771	6.773	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:

FY 2023 funds provide for the procurement of spares to support initial fielding of new or modified end items.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.090	5.019	6.508	-	6.508	6.688	6.803	6.771	6.773
Total:									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	5.090	5.019	6.508	-	6.508	6.688	6.803	6.771	6.773

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

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:** 1242CA0250 / Spares And Repair Parts

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	CA0267 / PATRIOT MODIFICATION INITIAL SPARES				- / 383.963	- / 5.090	- / 5.019	- / 6.508	- / -	- / 6.508
P-40	Total Gross/Weapon System Cost				- / 383.963	- / 5.090	- / 5.019	- / 6.508	- / -	- / 6.508

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

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

Justification:
 FY2023 procurement dollars in the amount of \$6.508 million support continuing acquisition of Patriot Modification Initial Spares. The funds in this account procure depot level repairable (DLR) secondary items from Supply Management, Army activities of the Army Working Capital Fund and commercial life cycle support vendors. To provide initial issue spares support, funds are 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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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 04 / 10	P-1 Line Item Number / Title: 1242CA0250 / Spares And Repair Parts	Item Number / Title [DODIC]: CA0267 / PATRIOT MODIFICATION INITIAL SPARES

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	383.963	5.090	5.019	6.508	-	6.508
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	383.963	5.090	5.019	6.508	-	6.508
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	383.963	5.090	5.019	6.508	-	6.508

(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>	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
CA0267 / PATRIOT MODIFICATION INITIAL SPARES	-	-	383.963	-	-	5.090	-	-	5.019	-	-	6.508	-	-	-	-	-	6.508
<i>Subtotal: Non Recurring Cost</i>	-	-	383.963	-	-	5.090	-	-	5.019	-	-	6.508	-	-	-	-	-	6.508
<i>Subtotal: Hardware Cost</i>	-	-	383.963	-	-	5.090	-	-	5.019	-	-	6.508	-	-	-	-	-	6.508
Gross/Weapon System Cost	-	-	383.963	-	-	5.090	-	-	5.019	-	-	6.508	-	-	-	-	-	6.508

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	5.090	5.019	6.508	-	6.508
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	5.090	5.019	6.508	-	6.508

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA 10: Support Equipment & Facilities **P-1 Line Item Number / Title:** 1242C93000 / Air Defense Targets

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	894	538	666	657	-	657	654	657	684	633	-	5,383
Gross/Weapon System Cost (<i>\$ in Millions</i>)	458.092	8.979	10.618	11.317	-	11.317	11.610	12.011	12.815	12.222	-	537.664
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	458.092	8.979	10.618	11.317	-	11.317	11.610	12.011	12.815	12.222	-	537.664
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	458.092	8.979	10.618	11.317	-	11.317	11.610	12.011	12.815	12.222	-	537.664

(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>)	512.407	16.690	15.943	17.225	-	17.225	17.752	18.282	18.735	19.308	-	99.882

Description:

Air Defense Artillery (ADA) Targets program procures target hardware and associated training devices to include scoring, payload, and ground support equipment to provide equipment to facilitate 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 Test and Experimentation (FDT&E) investigations of engagement techniques against small unmanned aircraft systems.

Secondary Distribution	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army									
Quantity	538	666	657	-	657	654	657	684	633
Total Obligation Authority	8.979	10.618	11.317	-	11.317	11.610	12.011	12.815	12.222
Total: Secondary Distribution									
Quantity	538	666	657	-	657	654	657	684	633
Total Obligation Authority	8.979	10.618	11.317	-	11.317	11.610	12.011	12.815	12.222

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Exhibit P-40, Budget Line Item Justification: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA 10: Support Equipment & Facilities **P-1 Line Item Number / Title:** 1242C93000 / Air Defense Targets

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C93000 / Air Defense Targets	P-5a			894 / 458.092	538 / 8.979	666 / 10.618	657 / 11.317	- / -	657 / 11.317
P-40	Total Gross/Weapon System Cost				894 / 458.092	538 / 8.979	666 / 10.618	657 / 11.317	- / -	657 / 11.317

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

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

Justification:
 FY 2023 Base procurement dollars in the amount of \$11.317 million supports Air Defense Artillery Targets and scoring, payload, and ground support equipment for training required in DA PAM 350-38, Standards in Weapons Training. These items support gunnery tables, aerial target tracking (Captive Flight Trainer (CFT) and Tracking Head Trainer (THT) 5.56) training, Missile Live Fire training when missiles are allocated in accordance with the Missile Distribution Plan, and U.S. Army Avenger and Initial Maneuver Short-Range Air Defense (IM-SHORAD) 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 (Army Unit Status Reporting and Force Registration) training requirements, training strategies and gunnery standards, and Soldier qualification in support of unit readiness. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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Exhibit P-5, Cost Analysis: PB 2023 Army											Date: April 2022				
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10						P-1 Line Item Number / Title: 1242C93000 / Air Defense Targets					Item Number / Title [DODIC]: C93000 / Air Defense Targets				
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	
Procurement Quantity (Units in Each)				894		538		666		657		-		657	
Gross/Weapon System Cost (\$ in Millions)				458.092		8.979		10.618		11.317		-		11.317	
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
Net Procurement (P-1) (\$ in Millions)				458.092		8.979		10.618		11.317		-		11.317	
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
Total Obligation Authority (\$ in Millions)				458.092		8.979		10.618		11.317		-		11.317	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>															
Initial Spares (\$ in Millions)				-		-		-		-		-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				512.407		16.690		15.943		17.225		-		17.225	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Remotely Piloted Vehicle Target (RPVT) ^(†)	279.292	1,577	440.443	7.185	538	3.866	6.683	666	4.451	8.178	657	5.373	-	-	-	8.178	657	5.373
Infrared Kit Payload ^(†)	0.302	1,576	0.476	0.341	538	0.183	0.335	666	0.223	0.374	657	0.246	-	-	-	0.374	657	0.246
Launcher ^(†)	29.125	16	0.466	32.000	1	0.032	33.200	5	0.166	41.054	5	0.205	-	-	-	41.054	5	0.205
Manual Navigation GCS ^(†)	11.500	42	0.483	12.600	5	0.063	12.000	5	0.060	14.545	5	0.073	-	-	-	14.545	5	0.073
BVR Navigation GCS ^(†)	29.833	12	0.358	32.700	10	0.327	33.500	10	0.335	41.381	5	0.207	-	-	-	41.381	5	0.207
BVR Payload ^(†)	12.898	88	1.135	14.519	27	0.392	15.800	65	1.027	23.073	10	0.231	-	-	-	23.073	10	0.231
Acoustic Scoring Payload ^(†)	13.585	106	1.440	14.200	50	0.710	15.000	55	0.825	18.002	50	0.900	-	-	-	18.002	50	0.900
Acoustic Scoring GCS ^(†)	46.808	26	1.217	51.000	2	0.102	50.000	2	0.100	62.565	2	0.125	-	-	-	62.565	2	0.125
Radar Scoring Payload ^(†)	18.317	60	1.099	20.000	40	0.800	22.400	55	1.232	18.002	50	0.900	-	-	-	18.002	50	0.900
Radar Scoring GCS ^(†)	17.500	2	0.035	18.500	2	0.037	18.000	2	0.036	22.639	2	0.045	-	-	-	22.639	2	0.045
RPVT Lighting Kit Payload ^(†)	0.305	118	0.036	0.333	45	0.015	0.260	100	0.026	0.332	100	0.033	-	-	-	0.332	100	0.033
Program Management Support	1,659.250	4	6.637	2,132.000	1	2.132	1,792.000	1	1.792	2,693.000	1	2.693	-	-	-	2,693.000	1	2.693

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Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10	P-1 Line Item Number / Title: 1242C93000 / Air Defense Targets	Item Number / Title [DODIC]: C93000 / Air Defense Targets

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 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)
Smoke Generator Payload ^(†)	0.340	53	0.018	0.500	30	0.015	0.500	30	0.015	0.608	30	0.018	-	-	-	0.608	30	0.018
Over the Horizon BVR Payload ^(†)	23.000	14	0.322	20.000	15	0.300	22.000	15	0.330	26.799	10	0.268	-	-	-	26.799	10	0.268
<i>Subtotal: Recurring Cost</i>	-	-	454.165	-	-	8.974	-	-	10.618	-	-	11.317	-	-	-	-	-	11.317
<i>Subtotal: Flyaway Cost</i>	-	-	454.165	-	-	8.974	-	-	10.618	-	-	11.317	-	-	-	-	-	11.317
Software Cost																		
Recurring Cost																		
Technical Refresh - Windows OS Update	3,926.000	1	3.926	4.000	1	0.004	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	3.926	-	-	0.004	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	3.926	-	-	0.004	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	512.407	894	458.092	16.690	538	8.979	15.943	666	10.618	17.225	657	11.317	-	-	-	17.225	657	11.317

Remarks:

FY 2023 increase in unit costs is a result of inflation in the cost of materials and quantities of items being procured.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	538	666	657	-	657
	Total Obligation Authority	8.979	10.618	11.317	-	11.317
Total: Secondary Distribution	Quantity	538	666	657	-	657
	Total Obligation Authority	8.979	10.618	11.317	-	11.317

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army								Date: April 2022				
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10			P-1 Line Item Number / Title: 1242C93000 / Air Defense Targets					Item Number / Title [DODIC]: C93000 / Air Defense Targets				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Remotely Piloted Vehicle Target (RPVT)		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PEO-STRI	Dec 2020	Apr 2021	538	7.185	Y		
Remotely Piloted Vehicle Target (RPVT)		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Jan 2022	666	6.683	Y		
Remotely Piloted Vehicle Target (RPVT)		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Mar 2023	657	8.178	Y		
Infrared Kit Payload		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PEO-STRI	Dec 2020	Apr 2021	538	0.341	Y		
Infrared Kit Payload		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Jan 2022	666	0.335	Y		
Infrared Kit Payload		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Mar 2023	657	0.374	Y		
Launcher		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PEO-STRI	Dec 2020	Jun 2021	1	32.000	Y		
Launcher		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Jan 2022	5	33.200	Y		
Launcher		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Jun 2023	5	41.054	Y		
Manual Navigation GCS		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PEO STRI	Dec 2020	Jun 2021	5	12.600	Y		
Manual Navigation GCS		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Jan 2022	5	12.000	Y		
Manual Navigation GCS		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	May 2023	5	14.545	Y		
BVR Navigation GCS		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PEO STRI	Dec 2020	Jul 2021	10	32.700	Y		
BVR Navigation GCS		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Feb 2022	10	33.500	Y		
BVR Navigation GCS		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Sep 2023	5	41.381	Y		
BVR Payload		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PEO STRI	Dec 2020	Jul 2021	27	14.519	Y		
BVR Payload		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	May 2022	65	15.800	Y		
BVR Payload		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Sep 2023	10	23.073	Y		
Acoustic Scoring Payload		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PE STRI	Dec 2020	Jul 2021	50	14.200	Y		
Acoustic Scoring Payload		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	May 2022	55	15.000	Y		
Acoustic Scoring Payload		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Sep 2023	50	18.002	Y		
Acoustic Scoring GCS		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PEO STRI	Dec 2020	Jul 2021	2	51.000	Y		
Acoustic Scoring GCS		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	May 2022	2	50.000	Y		
Acoustic Scoring GCS		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Mar 2023	2	62.565	Y		
Radar Scoring Payload		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	AMCOM	Mar 2021	Dec 2021	40	20.000	Y		
Radar Scoring Payload		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Nov 2022	55	22.400	Y		
Radar Scoring Payload		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Sep 2023	50	18.002	Y		
Radar Scoring GCS		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PEO STRI	Dec 2020	Dec 2021	2	18.500	Y		
Radar Scoring GCS		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Nov 2022	2	18.000	Y		
Radar Scoring GCS		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Sep 2023	2	22.639	Y		
RPVT Lighting Kit Payload		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PEO STRI	Dec 2020	May 2021	45	0.333	Y		
RPVT Lighting Kit Payload		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Jan 2022	100	0.260	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2023 Army **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10	P-1 Line Item Number / Title: 1242C93000 / Air Defense Targets	Item Number / Title [DODIC]: C93000 / Air Defense Targets
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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
RPVT Lighting Kit Payload		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Apr 2023	100	0.332	Y		
Smoke Generator Payload		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PEO STRI	Dec 2020	May 2021	30	0.500	Y		
Smoke Generator Payload		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Jan 2022	30	0.500	Y		
Smoke Generator Payload		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Apr 2023	30	0.608	Y		
Over the Horizon BVR Payload		2021	Griffon Aerospace Inc. / Madison, AL	Option / FFP	PEO STRI	Dec 2020	Jul 2021	15	20.000	Y		
Over the Horizon BVR Payload		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Feb 2022	15	22.000	Y		
Over the Horizon BVR Payload		2023	TBD / TBD	Option / FFP	ACC-RED	Nov 2022	Sep 2023	10	26.799	Y		

Remarks:

NOTE: All FY 2021 and 2022 Procurements with Griffon Aerospace are Options on the program's firm fixed price contract.