Department of Defense Fiscal Year (FY) 2022 Budget Estimates

May 2021



Army

Justification Book of

Missile Procurement, Army

Army • Budget Estimates FY 2022 • Procurement

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Cost Statement

The following Justification Books were prepared at a cost of \$472,560: 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, and modification of weapons and tracked combat vehicles, 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, \$3,556.251,000 to remain available for obligation until September 30, 2024.

The FY 2022 Overseas Contingency Operations accounted for in the base budget are as follows:

- Direct War Costs accounted for in the Base Budget: \$374,693,000: Direct War costs are those combat or direct combat support costs that will not continue to be expended once combat operations end at major contingency locations.
- Enduring Costs accounted for in the Base Budget: \$266,420,000: Enduring Requirements are enduring in-theater and in CONUS costs that will likely remain after combat operations cease, and have previously been funded in OCO.

FY 2021 includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260).

FY 2020 includes Division A, Title IX ad X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136).

Department of the Army FY 2022 President's Budget Exhibit P-1 FY 2022 President's Budget Total Obligational Authority (Dollars in Thousands)

11 May 2021

Appropriation	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request
Missile Procurement, Army	4,342,797	4,017,140	3,556,251
Total Department of the Army	4,342,797	4,017,140	3,556,251

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 11, 2021 at 13:41:48
*Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 and the Coronavirus Aid, Relief, and Economic security Act (P.L. 116-36)

^{**} Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-68).

Department of the Army FY 2022 President's Budget Exhibit P-1 FY 2022 President's Budget Total Obligational Authority (Dollars in Thousands)

11 May 2021

Appropriation: Missile Procurement, Army

Budget Activity	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request

02. Other Missiles	3,451,759	3,154,390	3,038,309
03. Modification of Missiles	854,001	848,682	502,305
04. Spares and Repair Parts	26,444	5,090	5,019
05. Support Equipment and Facilities	10,593	8,978	10,618
Total Missile Procurement, Army	4,342,797	4,017,140	3,556,251

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 11, 2021 at 13:41:48
*Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 and the Coronavirus Aid, Relief, and Economic security Act (P.L. 116-36)
** Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-68).

Department of the Army FY 2022 President's Budget Exhibit P-1 FY 2022 President's Budget Total Obligational Authority (Dollars in Thousands)

11 May 2021

Appropriation: 2032A Missile Procurement, Army

Line	Ident		2020 tual*		2021 ted**	FY 2022 Request		S e
No Item Nomenclature	Code	Quantity		Quantity		Quantity		
							••••	•
Budget Activity 02: Other Missiles								
Surface-to-Air Missile System								
1 System Integration and Test Procurement	A		107,157					U
2 Lower Tier Air and Missile Defense (AMD) Sen	A						35,473	U
3 M-SHORAD - Procurement	A	28	233,300	59	517,287	37	331,575	U
4 MSE Missile		156	702,437	177	678,148	180	776,696	U
5 PRECISION STRIKE MISSILE (PRSM)	А			30	49,941	110	166,130	U
6 INDIRECT FIRE PROTECTION CAPABILITY INC 2-I	A		9,337		62,461		25,253	U
Air-To-Surface Missile System								
7 Hellfire Sys Summary	A	4581	425,549	3518	327,490	802	118,800	U
8 Joint Air-to-Ground MSLS (JAGM)		1067	199,295	537	196,548	386	152,177	U
9 Long Range Precision Munition	А			170	38,107	179	44,744	U
Anti-Tank/Assault Missile Sys								
10 Javelin (AAWS-M) System Summary		697	142,794	768	181,325	376	120,842	U
11 TOW 2 System Summary	A	1460	118,458	1231	112,974	887	104,412	U
12 Guided MLRS Rocket (GMLRS)		7878	1,136,794	5502	912,997	5817	935,917	U
13 MLRS Reduced Range Practice Rockets (RRPR)		2982	27,555	3330	30,836	3048	29,574	U
14 High Mobility Artillery Rocket System (HIMARS				6	46,276	19	128,438	U
15 ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM	В	282	300,783					U

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^{*}Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 and the Coronavirus Aid, Relief, and Economic security Act (P.L. 116-36)

^{**} Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-68).

Department of the Army FY 2022 President's Budget Exhibit P-1 FY 2022 President's Budget Total Obligational Authority (Dollars in Thousands)

11 May 2021

Appropriation: 2032A Missile Procurement, Army

Line No Item Nomenclature	Ident Code	FY 2 Actu Quantity	al* Cost	FY 20 Enacte Quantity	d** Cost	FY 2 Requ Quantity	Cost	
16 LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS	A	425	48,300			900	68,278	
Total Other Missiles			451,759		54,390		038,309	
Budget Activity 03: Modification of Missiles								
Modifications								
17 Patriot Mods			278,716	2	78,050		205,469	U
18 ATACMS MODS	A		80,320	2	14,524			U
19 GMLRS MOD	A		5,094					U
20 Stinger Mods			87,262					U
21 AVENGER MODS			14,107		13,942		11,227	U
22 ITAS/TOW Mods			3,469		5,666		4,561	U
23 MLRS Mods			372,550	3	30,419		273,856	U
24 HIMARS Modifications			12,483		6,081		7,192	
Total Modification of Missiles			854,001		48,682		502,305	
Budget Activity 04: Spares and Repair Parts								
Spares and Repair Parts								
25 Spares And Repair Parts			26,444		5,090		5,019	U
Total Spares and Repair Parts			26,444		5,090	-	5,019	

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 11, 2021 at 13:41:48

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^{*}Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 and the Coronavirus Aid, Relief, and Economic security Act (P.L. 116-36)

^{**} Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-68).

Department of the Army FY 2022 President's Budget Exhibit P-1 FY 2022 President's Budget Total Obligational Authority (Dollars in Thousands)

11 May 2021

Appropriation: 2032A Missile Procurement, Army

			FY 20	20	FY 20	21	FY 2022		
Line		Ident	Actual*		Enacte	ed**	Request		е
No	Item Nomenclature	Code	Quantity	Cost	Quantity	Cost	Quantity	Cost	C
									-
-	Activity 05: Support Equipment and Faciliti	es							
Suppo	ort Equipment & Facilities								
26 A	ir Defense Targets			10,593		8,978		10,618	
Total	Support Equipment and Facilities			10,593		8,978		10,618	
Total	Missile Procurement, Army			42,797		17,140		556,251	

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 11, 2021 at 13:41:48
*Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 and the Coronavirus Aid, Relief, and Economic security Act (P.L. 116-36)
** Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-68).

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

Appropriation 2032A: Missile Procurement, Army

Line #	ва	BSA	Line Item Number	Line Item Title	Page
1	02	10	7153C50016	System Integration and Test Procurement	1
2	02	10	7265C12000	Lower Tier Air and Missile Defense (AMD) Sensor	
3	02	10	8082C14300	M-SHORAD - Procurement	6
4	02	10	8260C53101	MSE Missile	15
5	02	10	8540C29600	PRECISION STRIKE MISSILE (PRSM)	20
6	02	10	8930C61001	INDIRECT FIRE PROTECTION CAPABILITY INC 2-I	29
7	02	20	1338C70000	Hellfire Sys Summary	
8	02	20	2605C70302	Joint Air-to-Ground MSLS (JAGM)	
9	02	20	2607C71300	Long Range Precision Munition	54
10	02	30	0648CC0007	Javelin (AAWS-M) System Summary	
11	02	30	2104C59300	TOW 2 System Summary	77
	02	30	2104C59300	TOW 2 System Summary, Advance Procurement	89
12	02	30	6005C64400	Guided MLRS Rocket (GMLRS)	100
13	02	30	6060C65405	MLRS Reduced Range Practice Rockets (RRPR)	110
14	02	30	6200C02901	High Mobility Artillery Rocket System (HIMARS)	121
15	02	30	6472C98510	ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM	123

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Appropriation 2032A: Missile Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
16	02	30	6870C88001	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	131

Appropriation 2032A: Missile Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
17	03	10	0962C50700	Patriot Mods	165
18	03	10	1823CA6700	ATACMS MODS	167
19	03	10	1824C57701	GMLRS MOD	169
20	03	10	2684C20000	Stinger Mods	171
21	03	10	2690CE8710	AVENGER MODS	184
22	03	10	3972C61700	ITAS/TOW Mods	186
23	03	10	6552C67500	MLRS Mods	196
24	03	10	6580C67501	HIMARS Modifications	202

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Appropriation 2032A: Missile Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
25	04	10	1242CA0250	Spares And Repair Parts	205

Appropriation 2032A: Missile Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
26	05	10	1242C93000	Air Defense Targets	

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

Line Item Title	Line Item Number	Line #	ВА	BSA	Page
ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM	6472C98510	15	02	30	123
ATACMS MODS	1823CA6700	18	03	10	167
AVENGER MODS	2690CE8710	21	03	10	184
Air Defense Targets	1242C93000	26	05	10	
GMLRS MOD	1824C57701	19	03	10	169
Guided MLRS Rocket (GMLRS)	6005C64400	12	02	30	100
HIMARS Modifications	6580C67501	24	03	10	202
Hellfire Sys Summary	1338C70000	7	02	20	33
High Mobility Artillery Rocket System (HIMARS)	6200C02901	14	02	30	121
INDIRECT FIRE PROTECTION CAPABILITY INC 2-I	8930C61001	6	02	10	29
ITAS/TOW Mods	3972C61700	22	03	10	186
Javelin (AAWS-M) System Summary	0648CC0007	10	02	30	61
Joint Air-to-Ground MSLS (JAGM)	2605C70302	8	02	20	44
LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	6870C88001	16	02	30	131
Long Range Precision Munition	2607C71300	9	02	20	54
Lower Tier Air and Missile Defense (AMD) Sensor	7265C12000	2	02	10	3
M-SHORAD - Procurement	8082C14300	3	02	10	6

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Line Item Title	Line Item Number	Line #	ВА	BSA	Page
MLRS Mods	6552C67500	23	03	10	196
MLRS Reduced Range Practice Rockets (RRPR)	6060C65405	13	02	30	110
MSE Missile	8260C53101	4	02	10	15
PRECISION STRIKE MISSILE (PRSM)	8540C29600	5	02	10	20
Patriot Mods	0962C50700	17	03	10	165
Spares And Repair Parts	1242CA0250	25	04	10	205
Stinger Mods	2684C20000	20	03	10	171
System Integration and Test Procurement	7153C50016	1	02	10	1
TOW 2 System Summary	2104C59300	11	02	30	77
TOW 2 System Summary, Advance Procurement	2104C59300		02	30	89

Army • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary (Listing by Model)

Lookup Matrix by Model

Model: Various

Wodel: Vallous		
P-3a Individual Modificatio	ns	
Modification Number	Modification Title	Applies to Multiple Models
C50700	Patriot Mods	No
Model: Avenger Basic and	I Slew-to-Cue Systems	
P-3a Individual Modificatio	ns	
Modification Number	Modification Title	Applies to Multiple Models
CE8710	AVENGER MODS	No
Model: M270A1		
P-3a Individual Modificatio	ns	
Modification Number	Modification Title	Applies to Multiple Models
C67500	MLRS Mods	No
Maratala Maratala Maratala	Antilliana Danalast Oceateur	
Model: M142 High Mobility	y Artillery Rocket System	
P-3a Individual Modificatio	ns	
Modification Number	Modification Title	Applies to Multiple Models
C67501	HIMARS Modifications	No
(·	

Army • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary (Funding for Modifications)

Funding (\$ M)

P-3a Modification Title	PYS	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Exhibit P-3a										
Patriot Mods	4,485.842	278.716	278.050	205.469	-	205.469	-	-	-	-
AVENGER MODS	192.317	14.107	13.942	11.227	-	11.227	-	-	-	-
MLRS Mods	1,062.635	372.550	330.419	273.856	-	273.856	-	-	-	-
HIMARS Modifications	245.250	12.483	6.081	7.192	-	7.192	-	-	-	-
Totals (Total Obligation Authority)			,							
Total Obligation Authority	5,986.044	677.856	628.492	497.744	0.000	497.744	0.000	0.000	0.000	0.000

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

7153C50016 / System Integration and Test Procurement

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	608.806	107.157	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	=	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	608.806	107.157	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	608.806	107.157	-	-	-	-	-	-	-	-	-	
(The following	Resource Sumi	mary rows are fo	r informational p	ourposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

- System Integration and Test Procurement line (formerly Lower Tier Air and Missile Defense (LTAMD)) supports the Field Surveillance Program (FSP), PAC-3 Missile Support Center (P3MSC), International Engineering Services Program (IESP), Integrated Logistics Support (ILS), US Unique Engineering Services (ES), and System Engineering Program Management (SEPM) activities. The mission of the PATRIOT Advanced Capability-3 (PAC-3) Missile Field Surveillance Program (FSP) is required to ensure that the reliability, performance, and safety of fielded PAC-3 missiles remain within the classified system specification for the life of the system. Initial FSP tasks confirm the quality of design, materials, procedures, and processes used in the manufacture of the system. After missile deployment, results from surveillance firings, inspections, functional tests, Storage and Aging Programs, and depot level missile maintenance processing provide the data required for the assessment of reliability, performance, and safety of the missile stockpile. This includes PAC-3 missile tooling and test equipment. The PAC-3 missile is fielded under the Certified Round Concept. Under this approved concept, the PAC-3 missile is capable of being placed in extended storage as part of war reserve stocks or deployed in operational units for variable periods and then fired without intervening tests or checkouts. In accordance with the Certified Round Concept, the reliability/performance of the missile is certified by the Lower Tier Project Office (LTPO) to be at an acceptable level for a stated period of time 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 PAC-3 missiles.
- The PATRIOT International Engineering Services Program provides continuing engineering support for system software and hardware for the life of the PATRIOT Air Defense System for US and international partners. The Engineering Services Program is designed to standardize and improve the PATRIOT system within the performance envelope described in the system specification. The support provided under this program includes PATRIOT software maintenance, Post Deployment Build 8/8.x(PDB-8/8.x), engineering support for PATRIOT peculiar hardware, government furnished equipment, logistics, technical data package, trainers, US Unique ES, and integrated diagnostics support system. This is accomplished through the investigation, analysis, and development of solutions to identified problems. Modifications to hardware are engineered for manufacturing implementation and retrofit of fielded hardware through the modification process. The Dismounted Patriot Information Coordination Central (D-PICC) effort is an example of rehosting tactical Patriot software maintained via engineering services to a smaller, more mobile hardware configuration that will allow flexible, tailorable deployment options by freeing up Battalion level ICC's.
- 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. Program office core employee labor costs moved from Procurement to OMA in FY19 as part of an OSD auditability directive.
- Logistics Recurring includes all aspects of Integrated Logistics Support (ILS) management, e.g., maintenance support, facilities, personnel, training, testing, and fielding.
- Supports procuring, fielding, and supporting materiel solutions to counter cybersecurity and electronic warfare shortcomings to all elements of the Lower Tier Battle Space.

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

7153C50016 / System Integration and Test Procurement

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

Secondary	/ Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	107.157	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	107.157	-	-	-	-	-	-	-	-

Justification:

Beginning FY21, C50016 / System Integration and Test Procurement funding was realigned to C50700 / Patriot Mods.

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	35.473	-	35.473	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	35.473	-	35.473	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	35.473	-	35.473	-	-	-	-	-	-
(The following	Resource Sum	mary rows are fo	or informational p	ourposes only. Th	e corresponding	g budget requests	are documente	ed elsewhere.)	!			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

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 (IAMD) 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 16 sensors planned for fielding in FY25 through FY28. The additional quantities supporting the Army Acquisition Objective shall be fielded in FY28 through FY34 subsequent to baseline changes identified through Pre-Planned Product Improvement activities.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	35.473	-	35.473	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	35.473	-	35.473	-	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C12101 / Lower Tier Air and Missile Defense Sensor				- / -	- / -	- / -	- / 35.473	- / -	- / 35.473
P-40	Total Gross/Weapon System Cost				- 1 -	- 1 -	- 1 -	- / 35.473	- 1 -	- / 35.473

^{*}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:

FY22 base Procurement dollars in the amount of \$35.473 million supports Initial Production Facilitization (IPF) and Interim Contractor Support for fielding UMR capability.

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

Lower Tier Air and Missile Defense (AMD) Sensor is a new start in FY 2022.

							UI	NCLAS	SIFIE)								
Exhibit P-5, Cost	Analysis	s: PB 20	22 Army	1										Date: M	ay 2021			
Appropriation / B 2032A / 02 / 10	udget A	ctivity /	Budget	Sub Act	ivity:	1				: and Miss	ile Defe	nse (AMI	0) (0	212101	mber / 7 / Lower Sensor	Tier Air	ODIC]: and Miss	sile
ID Code (A=Service Read	ly, B=Not Servi	ice Ready):				l			М	DAP/MAIS	S Code:							
F	Resource	Summ	ary			Prior Ye	ars	FY 20	020	FY	2021	FY	2022 Bas	e F	Y 2022 (осо	FY 202	2 Total
Procurement Quantity (Uni							-					-		-		-		
Gross/Weapon System Co	ost (\$ in Million	ns)					-		-			-	35.	473		-		35.473
Less PY Advance Procure	ment (\$ in Mi	llions)					-		-			-		-		-		-
Net Procurement (P-1) (\$ i	n Millions)						-		-			-	35.	.473		-		35.473
Plus CY Advance Procure	ment (\$ in Mil	llions)					-		-			-		-		-		-
Total Obligation Authorit	t y (\$ in Millions	s)					-		-			-	35.	473		-		35.473
(TI	he following l	Resource S	ummary row	s are for info	ormational p	urposes onl	y. The corres	sponding bud	dget reques	ts are docum	ented elsev	vhere.)						
Initial Spares (\$ in Millions)							-		-			-		-		-		-
Gross/Weapon System Ur	nit Cost (\$ in 7	Thousands)					-		-			-		-		-		-
Note: Subtotals or Totals in				or sum exact		unding.		E)/ 0004			, aaaa B	_				1	E)/ 0000 E	
	F	Prior Year	1		FY 2020	1		FY 2021		F	/ 2022 Ba		FY	2022 OC	-		FY 2022 To	1
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cos	Qty (Each)	Total Cost (\$ M)
Hardware Cost																	·	_
Recurring Cost					1	T												1
ICS (Interim Contractor Support)	-	-	-	-	-	-	-	-	-	-	-	6.573	-	-	-	-	-	6.573
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	6.573	-	-	-	-	-	6.573
Non Recurring Cost IPF (Initial Production				Ī												1		
Facilitization	-	-	-	-	-	-	-	-	-	-	-	28.900	-	-	-	-	-	28.900
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	28.900	-	-	-	-	-	28.900
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	35.473	-	-	-	-	-	35.473
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	35.473	-	-	-	-	-	35.473
												5)/ 0	•••	1	<u></u>		5 1/ 00	
	Sec	ondary Di	istribution				FY	2020		FY 2021		FY 2 Ba			FY 2022 OCO		FY 20 Tota	
Army		Qua	antity						-		-		-			-		-
		Tota	al Obligation A	uthority					-		-		35.473			-		35.473
Total: Secondary Distribution			antity						-		-		-			-		-
Decondary Distribution		Tota	al Obligation	Authority					-		-		35.473			-		35.473

LI 7265C12000 - Lower Tier Air and Missile Defense (AMD)... Army

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P-1 Line #2

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

ivitv: P-1 Line Item Number / Title:

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

8082C14300 / M-SHORAD - Procurement

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604117A

Line Item MDAP/MAIS Code: N/A

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	-	28	59	37	-	37	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	233.300	517.287	331.575	-	331.575	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	233.300	517.287	331.575	-	331.575	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	233.300	517.287	331.575	-	331.575	-	-	-	-	-	-
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	e corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	8,332.143	8,767.576	8,961.486	-	8,961.486	-	-	-	-	-	-

Description:

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), Unmanned Aircraft Systems (UAS) and Rocket, Artillery and Mortar (RAM) 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 supported by a Fiscal Year (FY) 2018 Army Approved Directed Requirement informed by a FY17 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).

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

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	28	59	37	-	37	-	-	-	-
	Total Obligation Authority	233.300	517.287	331.575	-	331.575	-	-	-	-
Total:	Quantity	28	59	37	-	37	-	-	-	-
Secondary Distribution	Total Obligation Authority	233.300	517.287	331.575	-	331.575	-	-	-	-

P-1 Line #3

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

8082C14300 / M-SHORAD - Procurement

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604117A

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C14301 / Maneuver - Short Range Air Defense (M-SHORAD)	P-5a, P-21	Α		- / -	28 / 233.300	59 / 517.287	37 / 331.575	- / -	37 / 331.575
P-40	Total Gross/Weapon System Cost				- 1 -	28 / 233.300	59 / 517.287	37 / 331.575	- 1 -	37 / 331.575

^{*}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 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 on 21 January 2018. PEO MS awarded NTE FAR based Fixed Price Contract to GDLS on Sept 30, 2020. The Army plans on definitizing the contract by Aug 17, 2021 for procurement and fielding of 144 M-SHORAD Inc. 1 systems to include spares, engineering services and Logistics support.

FY 2022 Base procurement funding in the amount of \$331.575M.

The 37 M-SHORAD Inc.1 systems support 3rd Battalion and portion of 4th Battalion. These quantities are required in order to meet the Full Operational Capability requirement specified in the Directed Requirement.

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

Date: May 2021 Exhibit P-5, Cost Analysis: PB 2022 Army Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: C14301 / Maneuver - Short Range Air 2032A / 02 / 10 8082C14300 / M-SHORAD - Procurement Defense (M-SHORAD) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready): A **Resource Summary Prior Years FY 2020** FY 2021 FY 2022 Base **FY 2022 OCO** FY 2022 Total 28 59 37 Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) _ 233.300 517.287 331.575 _ 331.575 Less PY Advance Procurement (\$ in Millions) Net Procurement (P-1) (\$ in Millions) 233.300 517.287 331.575 331.575 _ _ Plus CY Advance Procurement (\$ in Millions) _ Total Obligation Authority (\$ in Millions) 233,300 517.287 331.575 331.575 (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 8,961.486 8,767.576 8,961.486 Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. FY 2020 FY 2021 **FY 2022 Base FY 2022 OCO** FY 2022 Total **Prior Years** Total Total Total Total Total Total Qty **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Cost Elements** (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) Flyaway Cost Recurring Cost 7,879.441 Initial M-SHORAD(†) 8,253.571 28 231.100 59 464.887 8,066.892 37 298.475 8,066.892 37 298.475 Subtotal: Recurring Cost 231.100 298.475 464.887 298.475 Non Recurring Cost 12.500 **Engineering Sevices** 5.700 5.700 Subtotal: Non Recurring 12.500 5.700 5.700 Cost Subtotal: Flvawav Cost 231.100 477.387 304.175 304.175 Hardware Cost Recurring Cost GFE HDW 8.300 4.900 4.900 Subtotal: Recurring Cost 8.300 4.900 4.900 ---Subtotal: Hardware Cost 8.300 _ 4.900 4.900 Package Fielding Cost Recurring Cost 8.100 8.100 Fieldina Subtotal: Recurring Cost 8.100 8.100 --_ Subtotal: Package Fielding 8.100 8.100 Support - Initial Spares and Repair Parts Cost

LI 8082C14300 - M-SHORAD - Procurement Army

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Page 3 of 9

P-1 Line #3

Exhibit P-5, Cost Analysis: PB 2022 Army

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2032A / 02 / 10

8082C14300 / M-SHORAD - Procurement

C14301 / Maneuver - Short Range Air

Defense (M-SHORAD)

Date: May 2021

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

MDAP/MAIS Code:

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

Appropriation / Budget Activity / Budget Sub Activity:

	F	Prior Years	5		FY 2020			FY 2021		F۱	1 2022 Ba	se	F	Y 2022 OC	0	F'	Y 2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Initial Spares and Repair Parts	-	-	-	-	-	-	-	-	25.300	-	-	8.400	-	-	-	-	-	8.400
Subtotal: Support - Initial Spares and Repair Parts Cost	-	-	-	-	-	-	-	-	25.300	-	-	8.400	-	-	-	-	-	8.400
Support - Logistics Cost																		
Integrated Logistics Support	-	-	-	-	-	-	-		3.500		-	3.800	-	-	-	-	-	3.800
Subtotal: Support - Logistics Cost	-	-	-	-	-	-	-		3.500		-	3.800	-	-	-	_	_	3.800
Support - Program Manageme	ent Cost																	
Government Management	-	-	-	-	-	2.200	-		2.800		-	2.200	-	-	-	-	-	2.200
Subtotal: Support - Program Management Cost	-	-	-	-	-	2.200	-	-	2.800	-	-	2.200	-	-	-	-	-	2.200
Gross/Weapon System Cost	-	-	-	8,332.143	28	233.300	8,767.576	59	517.287	8,961.486	37	331.575	-	-	-	8,961.486	37	331.575

Remarks:

FY 2022 Base procurement funding in the amount of \$331.575M procures 37 Systems.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	28	59	37	-	37
	Total Obligation Authority	233.300	517.287	331.575	-	331.575
Total:	Quantity	28	59	37	-	37
Secondary Distribution	Total Obligation Authority	233.300	517.287	331.575	-	331.575

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022	Army	Date : May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 10	8082C14300 / M-SHORAD - Procurement	C14301 / Maneuver - Short Range Air
		Defense (M-SHORAD)

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Revision	RFP Issue Date
Initial M-SHORAD ^(†)		2020	GDLS / Sterling, MI	SS / FFP	TBD	Sep 2020	Jun 2022	28	8,253.571	N		
Initial M-SHORAD ^(†)		2021	GDLS / Sterling, MI	Option / FFP	HSV	Apr 2021	Dec 2022	59	7,879.441	N		
Initial M-SHORAD ^(†)		2022	GDLS / Sterling, MI	Option / FFP	HSV	Jun 2022	Mar 2024	37	8,066.892	N		

 $^{^{(\}dagger)}$ indicates the presence of a P-21

Remarks:

FY 2022 Base procurement funding in the amount of \$331.575M procures 37 M-SHORAD Inc. 1 Systems.

P-1 Line #3

Ex	thi	bit P	2-21, Pro	duct	ion Sc	hedu	le: PE	3 202	2 Arm	ıy														Date	e: Ma	y 202	1				
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				ements n Each)								Fiscal Y	ear 2020											Fiscal Y	ear 2021						В
			ACCEPT BALL											(Calendar	Year 202	20								Cale	ndar Yea	r 2021				L
0 C 0	R	ACCEPT									F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A N C E
Init	ial N	1-SHOF	RAD																												
	1	2020	ARMY	28	0	28											_	Α -	-	-	-	-	-	-	-	-	-	-	-	-	28
	1	2021	ARMY	59	0	59																		Α -	-	-	-	-	-	59	
	1 2022 ARMY 37 0 37																					•				37					
							O C T	N O V	D E C	J A N	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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			Cost El (Units i	ements n Each)								Fiscal Y	ear 2022	2										Fiscal Y	ear 2023						В
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	1	2020	ARMY	28	0	28	-	-	-	-	-	-	-	-	1	3	4	6	6	6	2										0
	1	2021	ARMY	59	0	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	4	6	6	6	6	6	6	6	7
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P-1 Line #3

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L			2025	dar Year	Calen								4	Year 202	alendar	C					ACCEPT PRIOR BAL												
S N E C P E	A U G	J U	J U N	M A Y	A P R	M A R	F E B	J A N	D E C	N O V	O C T	S E P	A U G	J U L	N U	M A Y	A P R	M A R	F E B	J A N	PRIOR BAL TO 1 DUE O N D J PROC OCT AS OF C O E A												
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													6	6	6	6	6	6	-	-	1 2022 ARMY 37 0 37												
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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
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)

	Production Rates (Each / Month)				Procurement Leadtime (Months)									
MFR	1FR					lni	tial		Reorder					
Ref #	Manufacturer Name - Location	MSR For 2022	1-8-5 For 2022	MAX For 2022	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	0	0	0	0	0	0	21	21		

Remarks:

FY 2022 Base procurement funding in the amount of \$331.575M Procures 37 M-SHORAD Inc. 1 Systems.

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

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

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

8260C53101 / MSE Missile

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604865A, 0603869A,

0604869A, 0605456A

Line Item MDAP/MAIS Code: 492

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	1,278	156	177	180	-	180	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	5,223.015	702.437	678.148	776.696	-	776.696	-	-	-	-	-	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	5,223.015	702.437	678.148	776.696	-	776.696	-	-	-	-	-	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	5,223.015	702.437	678.148	776.696	-	776.696	-	-	-	-	-	
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)		:	<u>'</u>	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)	4,086.866	4,502.801	3,831.345	4,314.978	-	4,314.978	-	-	-	-	-	

Description:

THE P-40 QUANTITY FOR FY20 AND FY21 IS SUBJECT TO BE UPDATED WITH ACTUALS.

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

The 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.

LI 8260C53101 - MSE Missile

Army

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P-1 Line #4

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

8260C53101 / MSE Missile

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604865A, 0603869A,

0604869A, 0605456A

Line Item MDAP/MAIS Code: 492

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

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.

				FY 2022	FY 2022	FY 2022				
Secondary Distribution		FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	156	177	180	-	180	-	-	-	-
	Total Obligation Authority	702.437	678.148	776.696	-	776.696	-	-	-	-
Total:	Quantity	156	177	180	-	180	-	-	-	-
Secondary Distribution	Total Obligation Authority	702.437	678.148	776.696	-	776.696	-	-	-	-

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Exhil	oit P-40, Budget Line Item Justification: P	PB 2022 A	Army					Date: M	ay 2021	
2032	opriation / Budget Activity / Budget Sub A A: Missile Procurement, Army / BA 02: Othe le System			SA 10: \$		P-1 Line Item Nu 8260C53101 / MS				
ID Cod	(A=Service Ready, B=Not Service Ready):	F	Progra	m Elem	ents for Code B Ite	ms: N/A		Related Program Ele 9A, 0605456A	ements: 0604865A, 0	0603869A,
Line It	em MDAP/MAIS Code: 492									
	Exhibits Schedule		•		Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibit	ID ts CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)
P-5	C53101 / MSE Missile				1,278 / 5,223.015	156 / 702.437	177 / 678.148	180 / 776.696	- / -	180 / 776.696
P-40	Total Gross/Weapon System Cost				1,278 / 5,223.015	156 / 702.437	177 / 678.148	180 / 776.696	- 1 -	180 / 776.696
Round PM), a Army *Unit achiev **The	22 procurement dollars in the amount of \$776.696 millid Trainers (ERT), Field Surveillance Program (FSP), sure and Government/Software Engineering. Acquisition Objective (AAO) is 3376. Prices reflect an assessed yearly Foreign Military Sales wable. Army intends to convert any price advantage created to insitioned from Fixed Price Incentive (Firm Target) (FPI)	upporting ed s (FMS) pro	quipme	ent, ancil	lary missile items, PAC-3 missile variant	AC-3 Missile Support s. In the event FMS procurement, and/or fore	Center (P3MSC), Obsolute (P3MS	solescence, System I	Engineering/Program	Management (SE/

LI 8260C53101 - MSE Missile Page 3 of 5 Army

Date: May 2021 Exhibit P-5, Cost Analysis: PB 2022 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2032A / 02 / 10 8260C53101 / MSE Missile C53101 / MSE Missile

ID Code (A=Service Ready, B=Not Service Ready):	·	MI	DAP/MAIS Code:			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	1,278	156	177	180	-	180
Gross/Weapon System Cost (\$ in Millions)	5,223.015	702.437	678.148	776.696	-	776.696
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5,223.015	702.437	678.148	776.696	-	776.696
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,223.015	702.437	678.148	776.696	-	776.696
(The following Resource Summary rows are for informat	ional purposes only. The co	rresponding budget request	s are documented elsewher	re.)		-
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	4,086.866	4,502.801	3,831.345	4,314.978	-	4,314.978

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

	Pı	rior Years	;		FY 2020			FY 2021		FY	2022 Bas	se	FY	2022 OC	0	FY	2022 Tot	.al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Flyaway Cost	'	'			'		,	'		'			'				'	
Recurring Cost	-																	
Missile Hardware	3,929.334	1,143	4,491.229	4,117.265	147	605.238	3,813.760	146	556.809	3,795.933	180	683.268	-	-	-	3,795.933	180	683.2
Field Surveillance	-	-	47.959	-	-	5.949	-	-	18.732	-	-	18.169	-	-	-	-	-	18.1
PAC-3 Missile Support Center (P3MSC)	-	-	26.264	-	-	3.899	-	-	10.501	-	-	10.356	-	-	-	-	-	10.3
Obsolescence	-	-	106.774	-	-	8.597	-	-	15.307	-	-	21.007	-	-	-	-	-	21.0
Launcher Mod Kit (LMK)	1,824.700	40	72.988	247.585	41	10.151	253.094	32	8.099	255.960	25	6.399	-	-	-	255.960	25	6.3
Heater Kits	-	-	2.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Msl Round Trainer / Empty Round Trainer	-	-	166.138	-	-	45.695	-	-	44.601	-	-	14.599	-	-	-	-	-	14.5
Initial Production Facilitization	-	-	88.313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Government/Software Engineering	-	-	41.140	-	-	9.701	-	-	9.699	-	-	9.299	-	-	-	-	-	9.2
Sys Engrg/Proj Mgmt (SE/PM) Contractor	-	-	179.710	-	-	13.207	-	-	13.401	-	-	13.599	-	-	-	-	-	13.5
Subtotal: Recurring Cost	-	-	5,223.015	-	-	702.437	-	-	677.149	-	-	776.696	-	-	-	-	-	776.6
Non Recurring Cost				,	,												·	
Organic	-	-	-	-	-	-	-	-	0.999	-	-	-	-	-	-	-	-	
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	0.999	-	-	-	-	-	-	-	-	
Subtotal: Flyaway Cost	-	-	5,223.015	-	-	702.437	_	-	678.148	_	-	776.696	_	-	_	-	-	776.6

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Exhibit P-5, Cost Analysis: PB 2022 Army

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Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2032A / 02 / 10

8260C53101 / MSE Missile

C53101 / MSE Missile

Date: May 2021

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.

	F	Prior Years			FY 2020			FY 2021		FY 2022 Base		F'	Y 2022 OC	0	F۱	FY 2022 Total		
		•	Total			Total			Total			Total			Total			Total
Cost Elements	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)
Gross/Weapon System	\ , ,	, ,	, , ,	4.502.801	, ,	, , ,	, , ,	, ,	,,,,	, , ,	` ′		(, ,	(,,,	(, ,	, , ,	, ,	, ,
Cost	4,086.866	1,278	5,223.015	4,502.801	156	702.437	3,831.345	177	678.148	4,314.978	180	776.696	-	-	-	4,314.978	180	776.696

Remarks:

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

Seconda	ry Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	156	177	180	-	180
	Total Obligation Authority	702.437	678.148	776.696	-	776.696
Total:	Quantity	156	177	180	-	180
Secondary Distribution	Total Obligation Authority	702.437	678.148	776.696	-	776.696

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

8540C29600 / PRECISION STRIKE MISSILE (PRSM)

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0607134A

Line Item MDAP/MAIS Code: N/A

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

TV 0000 TV 0000 TV 0000													
	Prior			FY 2022	FY 2022	FY 2022					То		
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total	
Procurement Quantity (Units in Each)	-	-	30	110	-	110	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	-	-	49.941	166.130	-	166.130	-	-	-	-	-	-	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	-	-	49.941	166.130	-	166.130	-	-	-	-	-	-	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	-	-	49.941	166.130	-	166.130	-	-	-	-	-	-	
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	e corresponding	budget request	s are documente	ed elsewhere.)					
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	1,664.700	1,510.273	-	1,510.273	-	-	-	-	-	-	

Description:

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 the PrSM System is to attack/neutralize/suppress/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.

The current Army Acquisition Objective (AAO) is 3,986 PrSM missiles. The Army Procurement Objective (APO) for PrSM will be determined at Milestone B.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	30	110	-	110	-	-	-	-
	Total Obligation Authority	-	49.941	166.130	-	166.130	-	-	-	-
Total:	Quantity	-	30	110	-	110	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	49.941	166.130	-	166.130	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C29850 / PrSM Baseline	P-5a, P-21			- / -	- / -	30 / 49.941	110 / 166.130	- / -	110 / 166.130
P-40	Total Gross/Weapon System Cost		- 1 -	- 1 -	30 / 49.941	110 / 166.130	- 1 -	110 / 166.130		

^{*}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 2022 Base procurement dollars in the amount of \$166.130M supports the production of 110 Early Operational Capability (EOC) PrSM missiles with Launch Pod Missile Containers (LPMC). FY 2022 procurement dollars support \$38.139M Base, \$0.000 Direct War, and \$127.991M Enduring costs.

FY21-24 procurement quantities support fielding an early operational PrSM 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. 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. EOC production begins in FY 2021 with fielding occurring in FY 2023.

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 2022 Army **Date:** May 2021 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM) 2032A / 02 / 10 C29850 / PrSM Baseline MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready): **Prior Years FY 2022 Base** FY 2022 Total **FY 2020** FY 2021 **FY 2022 OCO** Resource Summary Procurement Quantity (Units in Each) 30 110 Gross/Weapon System Cost (\$ in Millions) 49.941 166.130 166.130 Less PY Advance Procurement (\$ in Millions) Net Procurement (P-1) (\$ in Millions) 49.941 166.130 166.130 -Plus CY Advance Procurement (\$ in Millions) _ _ Total Obligation Authority (\$ in Millions) 49.941 166.130 166,130 (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) 1,664.700 1,510.273 1,510.273 _ Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. **Prior Years** FY 2020 FY 2021 **FY 2022 Base FY 2022 OCO** FY 2022 Total Total Total Total Total Total Total **Unit Cost Unit Cost** Qty **Unit Cost** Qty **Unit Cost** Qty **Unit Cost** Qty **Unit Cost** Qty Qty Cost Cost Cost Cost Cost Cost Cost Elements (Each) (\$ M) (\$ K) (Each) (Each) (Each) (Each) (Each) (\$ M) (\$ K) Flyaway Cost Recurring Cost Recurring 1,457.567 1,322.364 1,322.364 110 30 43.727 110 145.460 145.460 Production(†) Engineering Changes 1.898 6.314 6.314 _ -Subtotal: Recurring Cost 45.625 151.774 151.774 Non Recurring Cost Non-Recurring 1.651 5.491 5.491 Production Subtotal: Non Recurring 1.651 5.491 5.491 Cost Subtotal: Flyaway Cost 47.276 157.265 157.265

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LI 8540C29600 - PRECISION STRIKE MISSILE (PRSM) Army

Support - Common Support Equipment Cost

Support - Initial Spares and Repair Parts Cost

Support and Handling

Support Equipment Cost
Support - Data Cost
Technical Publications

Subtotal: Support - Data

Initial Spares and Repair

Equipment
Subtotal: Support - Common

Cost

Parts

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0.651

0.651

0.470

0.470

0.172

2.165

2.165

1.563

1.563

0.572

P-1 Line #5

22

2.165

2.165

1.563

1.563

0.572

Exhibit P-5, Cost Analysis: PB 2022 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 02 / 10

P-1 Line Item Number / Title:

8540C29600 / PRECISION STRIKE MISSILE (PRSM)

C29850 / PrSM Baseline

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

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

MDAP/MAIS Code:

				1	<u> </u>		1											
	F	Prior Years	S		FY 2020			FY 2021		F	Y 2022 Bas	se	F	Y 2022 OC	0	F'	Y 2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
Subtotal: Support - Initial Spares and Repair Parts Cost	-	-	-	-	-	-	-	-	0.172	-	-	0.572	-	-	-	-	-	0.572
Support - Program Manageme	ent Cost																	
Government Management	-	-	-	-	-	-	-	-	0.794	-	-	2.641	-	-	-	-		2.641
Subtotal: Support - Program Management Cost	-	-	-	-	-	-	-	-	0.794	-	-	2.641	-	-	-	-		2.641
Support - Training Cost																		
Services	-	-	-	-	-	-	-	-	0.578	-	-	1.924	-	-	-	-	-	1.924
Subtotal: Support - Training Cost	-	-	-	-	-	-	-	-	0.578	-	-	1.924	-	-	-	-	-	1.924
Gross/Weapon System Cost	-	-	-	-	-	-	1,664.700	30	49.941	1,510.273	110	166.130	-	-	-	1,510.273	110	166.130

Seconda	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	30	110	-	110
	Total Obligation Authority	-	49.941	166.130	-	166.130
Total:	Quantity	-	30	110	-	110
Secondary Distribution	Total Obligation Authority	-	49.941	166.130	-	166.130

 $^{^{(\}dagger)}$ indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 A								
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:						
2032A / 02 / 10	8540C29600 / PRECISION STRIKE MISSILE (PRSM)	C29850 / PrSM Baseline						

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
Recurring Production ^(†)		2021	Lockheed Martin / M.&F.C. Sys. / Dallas, TX	SS / FPIF	Aviation and Missile Command	Aug 2021	Feb 2023	30	1,457.567	N		Jul 2020
Recurring Production ^(†)		2022	Lockheed Martin / M.&F.C. Sys. / Dallas, TX	SS / FFP	Aviation and Missile Command	Jun 2022	Dec 2023	110	1,322.364	N		Jul 2021

^(†) indicates the presence of a P-21

Remarks:

The FY 2021 Lockheed Martin EOC-1 contract plans to be awarded as an option on the Engineering and Manufacturing Development (EMD) contract.

The FY 2022 Lockheed Martin EOC-2 contract will be awarded as a separate IDIQ effort with options for EOC-3 and EOC-4.

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hik	it P	-21, Pro	oducti	on Sc	hedul	le: PE	3 202	2 Arm	าy														Date	e: May	y 202	1				
-	-		Budge	et Acti	vity /	Budg	get Sı	ub Ac	tivity	•	1							MISS	SILE (PRSI	M)						-	OIC]:		
											Fiscal Y	ear 2021											Fiscal Y	ear 2022						ВА
													(Calendar	Year 202	21								Calen	dar Year	2022				L
M F R #	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	A N C E
urrin	g Prod	duction																												
1 2	2021	ARMY	30	0	30											Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	30
1 2	2022	ARMY	110	0	110											•	,	,					,			Α -	-	-	-	110
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J L	A U G	S E P	
	pro	propri 32A / C	Propriation / B2A / 02 / 10 Cost El (Units in the second	Propriation / Budge 32A / 02 / 10 Cost Elements (Units in Each) F FY SERVICE PROC QTY urring Production 1 2021 ARMY 30	Cost Elements (Units in Each)	Cost Elements (Units in Each) ACCEPT PRIOR TO 1 DUE AS OF 1 OCT OCT AS OF 1 OCT OCT AS OF 1 OCT OCT	Cost Elements (Units in Each) ACCEPT PRIOR TO 1 DUE O N D J	Cost Elements (Units in Each)	P-1 S2A / 02 / 10 S54 S2A / 02 / 10 S54 S55 S5	P-1 Line 8540C29	P-1 Line Item 8540C29600 /	P-1 Line Item Num 8540C29600 / PRE	P-1 Line Item Number / 8540C29600 / PRECISION P-1 Line Item Number / 8540C	P-1 Line Item Number / Title: 8540C29600 / PRECISION ST	P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE	P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISS	P-1 Line Item Number / Title:	P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSI Cost Elements (Units in Each) ACCEPT PRIOR BAL TO 1 DUE OCT AS OF COST AS OF	P-1 Line Item Number / Title: 82A / 02 / 10 Cost Elements (Units in Each) Fiscal Year 2021 ACCEPT PRIOR BAL TO 1 DUE O N D J F M A M J J A S O N D J R F Y SERVICE QTY 2020 10CT T V C N B R R Y N L G P T V C N ACCEPT PRIOR BAL TO 1 DUE O N D J F M A M J J A S O N D J A S O N D J A S O N D J A S O N D J A S O N D J A S O N D J A S O N D J A S O N D J A S O N D J A S O N D J J B R R R Y N L G P T V C N D D J B R R R Y N L G P T V C N D D J B R R R Y N L G P T V C N D D J B R R R Y N L G P T V C N D D J B R R R Y N L G R P T V C N D D J B R R R Y N L G R P T V C N D D J B R R R Y N L G R P T V C N D D J B R R R Y N L G R P T V C N D D D D D D D D D D D D D D D D D D	P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM) Cost Elements (Units in Each)	P-1 Line Item Number / Title:	P-1 Line Item Number / Title: S2A / 02 / 10 S540C29600 / PRECISION STRIKE MISSILE (PRSM) C29850 / S40C29600 / S40C	P-1 Line Item Number / Title: S2A / 02 / 10 S540C29600 / PRECISION STRIKE MISSILE (PRSM) C29850 / PrsM C29850 / PrsM	P-1 Line Item Number / Title: S2A / 02 / 10 S40C29600 / PRECISION STRIKE MISSILE (PRSM) C29850 / PrSM Base C38 C38	P-1 Line Item Number / Title: S2A / 02 / 10 S540C29600 / PRECISION STRIKE MISSILE (PRSM) S40C29600 / PRECISION STRIKE MISSILE (PRSM) C29850 / PrSM Baseline C29850 / PrSM Baseline C3850	P-1 Line Item Number / Title: S2A / 02 / 10 S540C29600 / PRECISION STRIKE MISSILE (PRSM) S640C29600 / PRECISION STRIKE MISSILE (PRSM) C29850 / PrSM Baseline	P-1 Line Item Number / Title: S2A / 02 / 10 S540C29600 / PRECISION STRIKE MISSILE (PRSM) C29850 / PrSM Baseline S40C29600 / PRECISION STRIKE MISSILE (PRSM) C29850 / PrSM Baseline C3850			

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 10	8540C29600 / PRECISION STRIKE MISSILE (PRSM)	C29850 / PrSM Baseline

		Produc	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)			
MFR						lni	tial			Reo	rder	
Ref #		MSR For 2022	1-8-5 For 2022	MAX For 2022	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	36	120	180	0	8	18	26	0	8	18	26

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

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

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I

Missile System

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

Line Item MDAP/MAIS Code: 473

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	40.623	62.461	25.253	-	25.253	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	31.286	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	9.337	62.461	25.253	-	25.253	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	31.286	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	31.286	9.337	62.461	25.253	-	25.253	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	e corresponding	n budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The 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. In FY 2019, the Army signed a contract with the Israeli Missile Defense Organization (IMDO) for two Interim CMD (Iron Dome Defense System - Army (IDDS-A)) Batteries. For each of the interim capability's IDDS-A Batteries, the Army intends to employ a configuration that matches the Israeli Firing Unit (6 launchers per battery).

IFPC's Interim CMD (IDDS-A) systems were delivered to the Army in FY 2021. Following prerequisite events, the batteries will be available for deployment to meet the Army's requirements starting in FY 2022.

Concurrently, the Army is pursuing a Competitive strategy with Industry participating in a "Shoot Off" demonstration using Industries' proposed launcher and missile solutions integrated with the Army's IBCS and Sentinel radar. The Army will evaluate Industry proposals informed by models and simulations, hardware-in-the-loop, and live fire data, to make a Best Value recommendation to proceed to a single vendor to deliver the Enduring IFPC Inc 2 prototype solution. The Army will use a Middle Tier Acquisition (MTA) Rapid Prototyping approach to evaluate new capability, provide residual operational capability in FY 2023, then transition into procurement and field by FY 2026.

Secondar	ry Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.337	62.461	25.253	-	25.253	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	9.337	62.461	25.253	-	25.253	-	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: 473

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

	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C62002 / IFPC INC 2-I BLOCK 1 SYSTEM				- / 0.000	- /40.623	- / 62.461	- / 25.253	- / -	- / 25.253
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 40.623	- / 62.461	- / 25.253	- 1 -	- / 25.253

^{*}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 2022 Base dollars in the amount of \$25.253 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. To support the Interim CMD requirement, the Army procured two interim Iron Dome batteries from the Israeli Ministry of Defense. Following prerequisite events, the batteries will be available for deployment to meet the Army's requirements starting in FY 2022. 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.

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

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Page 2 of 4

Date: May 2021 Exhibit P-5, Cost Analysis: PB 2022 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2032A / 02 / 10 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY C62002 / IFPC INC 2-I BLOCK 1 INC 2-I SYSTEM

ID Code (A=Service Ready, B=Not Service Ready):		1	IDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	40.62	62.461	25.253	-	25.253
Less PY Advance Procurement (\$ in Millions)	-	31.28	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	9.33	62.461	25.253	-	25.253
Plus CY Advance Procurement (\$ in Millions)	31.286	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	31.286	9.33	62.461	25.253	-	25.253
(The following Resource Summary rows are for information	onal purposes only. The cor	responding budget reque	sts are documented elsewhe	re.)		1
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	_	-	-

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

	P	rior Years	3		FY 2020			FY 2021		F۱	/ 2022 Bas	se	FY	2022 OC	0	FY	' 2022 Tot	:al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Tota Cos
Hardware Cost	<u>'</u>				'					'			· · · · · · · · · · · · · · · · · · ·	'		<u>'</u>		
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	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Non Recurring Cost	-	-	-	-	-	40.623	-	-	43.383	-	-	-	-	-	-	-	-	
Subtotal: Hardware Cost	-	-	-	-	-	40.623	-	-	43.383	-	-	-	-	-	-	-	-	
upport - Logistics Cost																		
Integrated Logistics Support	-	-	-	-	-	-	-	-	19.078	-	-	25.253	-	-	-	-	-	25

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2022 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A / 02 / 10

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

P-1 Line Item Number / Title:
C62002 / IFPC INC 2-I BLOCK 1
SYSTEM

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.

	F	rior Years	3		FY 2020			FY 2021		FY	2022 Bas	se	F`	Y 2022 OC	0	F	Y 2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Subtotal: Support - Logistics Cost	-	-	-	-	-	-	-	-	19.078	-	-	25.253	-	-	-	-	-	25.253
Gross/Weapon System Cost	-		0.000	•	-	40.623	-	-	62.461	-	-	25.253	-	-	-	-	-	25.253

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	9.337	62.461	25.253	-	25.253
Total:	Quantity	-	-	-	=	-
Secondary Distribution	Total Obligation Authority	9.337	62.461	25.253	-	25.253

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface | 1338C70000 / Hellfire Sys Summary

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203802A, 0210109A

Line Item MDAP/MAIS Code: N/A

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	76,861	4,581	3,518	900	-	900	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	4,630.438	425.549	327.490	118.800	-	118.800	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4,630.438	425.549	327.490	118.800	-	118.800	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	4,630.438	425.549	327.490	118.800	-	118.800	-	-	-	-	-	-
(The following	Resource Sumr	nary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)	!			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	60.244	92.894	93.090	132.000	-	132.000	-	-	-	-	-	-

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, endof-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.

Sacandar	n. Diatribution	FY 2020	FY 2021	FY 2022	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondar	y Distribution	F 1 2020	F1 2021	Base	000	iotai	F1 2023	F 1 2024	F 1 2025	F1 2026
Army	Quantity	4,581	3,518	900	-	900	-	-	-	-
	Total Obligation Authority	425.549	327.490	118.800	-	118.800	-	-	-	-
Total:	Quantity	4,581	3,518	900	-	900	-	-	-	-
Secondary Distribution	Total Obligation Authority	425.549	327.490	118.800	-	118.800	-	-	-	-

Date: May 2021 Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface | 1338C70000 / Hellfire Sys Summary

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203802A, 0210109A

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII)	P-5a, P-21			76,861 / 4,630.438	4,581 / 425.549	3,518 / 327.490	900 / 118.800	- / -	900 / 118.800
P-40	Total Gross/Weapon System Cost	_			76,861 / 4,630.438	4,581 / 425.549	3,518 / 327.490	900 / 118.800	- 1 -	900 / 118.800

^{*}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:

FY2022 All-up Round Unit Cost is based on a total gty of 3,937 missiles across all Customers. The Air-to-Ground Missile Systems (AGMS) Family of Munitions Production Capacity of 11,000 is shared by all customers (Army, AF, Navy, & FMS) and all AGMS missile variants (HF, JAGM, & Trainers). FY2022 has an available capacity of 7,811 AGMS missiles.

FY2022 Direct War dollars in the amount of \$118.8M will procure 900 HELLFIRE missiles for the Army..

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.

The historical Army Acquisition Objective was 34,292. HELLFIRE will achieve TMR in FY22 with the delivery of missiles procured in FY19.

HELLFIRE Product Office is the Procuring Agency for all Services.

HELLFIRE 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 2022 Army

Date: May 2021

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:

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	76,861	4,581	3,518	900	-	900
Gross/Weapon System Cost (\$ in Millions)	4,630.438	425.549	327.490	118.800	-	118.800
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4,630.438	425.549	327.490	118.800	-	118.800
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	4,630.438	425.549	327.490	118.800	-	118.800
(The following Resource Summary rows are for inform	ational purposes only. The co	responding budget request	s are documented elsewhe	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	60.244	92.894	93.090	132.000	-	132.000

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

	Pr	ior Years	;		FY 2020			FY 2021		FY	' 2022 Bas	se	FY	2022 OC	0	FY	' 2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Flyaway Cost				,				,										
Recurring Cost																		
All-up Rounds ^(†)	46.413	76,513	3,551.183	71.444	5,112	365.220	76.461	3,518	268.990	88.743	900	79.869	-	-	-	88.743	900	79.8
Engineering Services	-	-	484.422	-	-	31.806	-	-	29.387	-	-	21.099	-	-	-	-	-	21.0
Acceptance Testing	-	-	88.749	-	-	2.086	-	-	1.499	-	-	1.535	-	-	-	-	-	1.5
Subtotal: Recurring Cost	-	-	4,124.354	-	-	399.112	-	-	299.876	-	-	102.503	-	-	-	-	-	102.5
Subtotal: Flyaway Cost	-	-	4,124.354	-	-	399.112	-	-	299.876	-	-	102.503	-	-	-	-	-	102.5
Support - Fielding Cost																		
Fielding	-	-	45.486	-	-	4.982	-	-	5.141	-	-	6.466	-	-	-	-	-	6.4
Subtotal: Support - Fielding Cost	-	-	45.486	-	-	4.982	-	-	5.141	-	-	6.466	-	-	-	-	-	6.4
Support - Production Enginee	ring Cost																	
Production Engineering	-	-	208.806	-	-	11.047	-	-	15.502	-	-	4.390	-	-	-	-	-	4.3
Subtotal: Support - Production Engineering Cost	-	-	208.806	-	-	11.047	-	-	15.502	-	-	4.390	-	-	-	-	•	4.3
Support - Program Manageme	ent Cost																	
Government Management	-	-	251.777	-	-	10.406	-	-	6.971	-	-	5.441	-	-	-	-		5.4
Subtotal: Support - Program Management Cost	-	-	251.777	-	-	10.406	-	-	6.971	-	-	5.441	-	-	-	-	-	5.4
Gross/Weapon System Cost	60.244	76,861	4,630.438	92.894	4,581	425.549	93.090	3,518	327.490	132.000	900	118.800	-	-	-	132.000	900	118.8

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
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:

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 Air Force, US Navy, 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.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	4,581	3,518	900	-	900
	Total Obligation Authority	425.549	327.490	118.800	-	118.800
Total:	Quantity	4,581	3,518	900	-	900
Secondary Distribution	Total Obligation Authority	425.549	327.490	118.800	-	118.800

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022	Army	Date: May 2021
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)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
All-up Rounds ^(†)		2017	Lockheed Missile and Fire Ctrl / Orlando	SS / FPIF	Redstone Arsenal, AL	Sep 2017	Oct 2019	4,362	74.160	Y		Dec 2013
All-up Rounds ^(†)	1	2017	Lockheed Missile and Fire Ctrl / Orlando	SS / FPIF	Redstone Arsenal, AL	Sep 2017	Oct 2019	1,323	74.160	Y		Dec 2013
All-up Rounds ^(†)		2018	Lockheed Missile and Fire Ctrl / Orlando	SS / FPIF	Redstone Arsenal, AL	Sep 2018	Oct 2020	5,233	69.764	Y		Dec 2016
All-up Rounds ^(†)	1	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	Jun 2022	Oct 2024	900	88.743	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 Air Force, US Navy, 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 prorata 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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All-ı	up Ro	unds						1				1									ļ										
Pric	r Yea	ars De	liveries: 6356	31																											
	1 2	017	AF ^(‡)	1.131	.000	1.131												A -	-	-	-	-	-	-	-	-	-	-	-	-	1.13
	1 2	017	ARMY	4.362	.000	4.362												Α -	-	-	-	-	-	-	-	-	-	-	-	-	4.362
	1 2	017	FMS (‡)	.965	.000	.965												Α -	-	-	-	-	-	-	-	-	-	-	-	-	.96
	1 2	017	Total	6.458	.000	6.458												-	-	-	-	-	-	-	-	-	-	-	-	-	6.458
√	1 2	017	ARMY	1.323	.000	1.323												Α -	-	-	-	-	-	-	-	-	-	-	-	-	1.323
	1 2	018	AF ^(‡)	5.158	.000	5.158																								A -	5.15
	1 2	018	ARMY	5.233	.000	5.233																								Α -	5.23
	1 2	018	FMS (‡)	.071	.000	.071																								A -	.07
	1 2	018	Total	10.462	.000	10.462																								-	10.462
√	1 2	019	ARMY	2.034	.000	2.034																									2.034
	1 2	020	AF ^(‡)	3.859	.000	3.859																									3.859
	1 2	020	ARMY	5.112	.000	5.112																									5.112
	1 2	020	FMS (‡)	.681	.000	.681																									.68
	1 2	020	Total	9.652	.000	9.652																									9.652
	1 2	021	AF ^(‡)	2.687	.000	2.687																									2.68
	1 2	021	ARMY	3.518	.000	3.518																									3.518
	1 2	021	FMS (‡)	2.541	.000	2.541																									2.54
	1 2	021	Total	8.746	.000	8.746																									8.740
	1 2	022	AF ^(‡)	1.175	.000	1.175																									1.17
	1 2	022	ARMY	.900	.000	.900																									.900
T	1 2	022	FMS (‡)	.523	.000	.523																									.523
	1 2	022	Total Base	2.598	.000	2.598																									2.598
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1	1 2	2017	AF ^(‡)	1.131	.000	1.131	-	-	-	-	-	-	-	-	-	-	-	-	.095	.095	.095	.094	.094	.094	.094	.094	.094	.094	.094	.094	
1	1 2	2017	ARMY	4.362	.000	4.362	-	-	-	-	-	-	-	-	-	-	-	-	.364	.364	.364	.364	.364	.364	.364	.364	.364	.364	.363	.359	
1	1 2	2017	FMS ^(‡)	.965	.000	.965	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	1 2	2017	Total	6.458	.000	6.458	-	-	-	-	-	-	-	-	-	-	-	-	.459	.459	.459	.458	.458	.458	.458	.458	.458	.458	.457	.453	
1	1 2	2017	ARMY	1.323	.000	1.323	-	-	-	-	-	-	-	-	-	-	-	-	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.102	! .
1	1 2	2018	AF ^(‡)	5.158	.000	5.158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.
1	1 2	2018	ARMY	5.233	.000	5.233	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.
1	1 2	2018	FMS (‡)	.071	.000	.071	-	-	-	-	-	-	-	-	-	-	-	-	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.005	Π.
1	1 2	2018	Total	10.462	.000	10.462	-	-	-	-	-	-	-	-	-	-	-	-	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.005	10.
/ 1	1 2	2019	ARMY	2.034	.000	2.034							Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0
1	1 2	2020	AF ^(‡)	3.859	.000	3.859																									3.
1	1 2	2020	ARMY	5.112	.000	5.112																									5.
1	1 2	2020	FMS (‡)	.681	.000	.681																									
1	1 :	2020	Total	9.652	.000	9.652																									9.
1	1 2	2021	AF ^(‡)	2.687	.000	2.687																									2.0
1	1 2	2021	ARMY	3.518	.000	3.518																									3.
1	1 2	2021	FMS (‡)	2.541	.000	2.541																									2.5
1	1 2	2021	Total	8.746	.000	8.746		_																							8.7
1	1 2	2022	AF ^(‡)	1.175	.000	1.175																							_		1.1
1	1 2	2022	ARMY	.900	.000	.900																									.9
1	1 2	2022	FMS ^(‡)	.523	.000	.523																									.5
1	1 :	2022	Total Base	2.598	.000	2.598		-																					-		2.5
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	1 2	2017	AF ^(‡)	1.131	1.131	.000	-	-	-	-	-	-	-	-	-	-	-	-													.00
	1 2	2017	ARMY	4.362	4.362	.000	-	-	-	-	-	-	-	-	-	-	-	-													.00
	1 2	2017	FMS (‡)	.965	.000	.965	.081	.081	.081	.081	.081	.080	.080	.080	.080	.080	.080	.080													.00
	1 2	2017	Total	6.458	5.493	.965	.081	.081	.081	.081	.081	.080	.080	.080	.080	.080	.080	.080	-	-	-	-	-	-	-	-	-	-	-	-	.00
1	1 2	2017	ARMY	1.323	1.323	.000													•										*		.00
	1 2	2018	AF ^(‡)	5.158	.000	5.158	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.429	.429													.00
	1 2		ARMY	5.233	.000	5.233	.437	.436	.436	.436	.436	.436	.436	.436	.436	.436	.436	.436													.00
	1 2	2018	FMS ^(‡)	.071	.071	.000	-	-	-	-	-	-	-	-	-	-	-	-													.00
\vdash	_		Total	10.462	.071		.867	.866	.866	.866	.866	.866	.866	.866	.866	.866	.865	.865	-	-	-	-	-	-	-	-	-	-	-	-	.00
1		2019	ARMY	2.034	.000	2.034	-	-	-	-	-	-	-	-	-	-	-	-	.170	.170	.170	.170	.170	.170	.169	.169	.169	.169	.169	.169	+
	_		AF ^(‡)	3.859	.000	3.859						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.85
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	_	_	Total AF ^(‡)	9.652 2.687	.000	9.652 2.687						-	-	- A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.65 2.68
		2021	ARMY	3.518	.000	3.518								A -	-	-	-	-	-	-	-		-	-	-		-	-	-		3.51
	_	2021	FMS (‡)	2.541	.000	2.541								A -	-	-	-	-	-	-	-		-	-	-	-	-	-	-		2.54
			Total	8.746	.000									Λ-	-			-		-		-		-	-		-	-	-		8.74
\vdash			AF ^(‡)	1.175	.000	1.175										-			- 1	-	-	-		-			A -	-	-		1.17
\vdash		2022	ARMY	.900	.000	.900	-																				A -	-	-		.90
\vdash		2022	FMS (‡)	.523	.000	.523		-							-			-						-			A -	-	-	_	.52
\vdash	_		Total Base	2.598	.000																						-	-	-	-	2.59
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			Cost El (Units in T									Fiscal Ye	ear 2023	,										Fiscal Ye							В
	,				ACCEPT PRIOR	BAL								С	alendar	Year 202	3								Calend	dar Year	2024				L
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All-u	p Ro	ounds																										<u> </u>			
Prior	Yea	ars De	liveries: 6356	1																											
1	1 2	2017	AF ^(‡)	1.131	1.131	.000																									
1	1 2	2017	ARMY	4.362	4.362	.000																									
1	1 2	2017	FMS (‡)	.965	.965	.000																									
1	1 2	2017	Total	6.458	6.458	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
/ 1	1 2	2017	ARMY	1.323	1.323	.000	,					•							*												
1	1 2	2018	AF ^(‡)	5.158	5.158	.000																									
1	1 2	2018	ARMY	5.233	5.233	.000																									
1	1 2	2018	FMS (‡)	.071	.071	.000																									
1	1 2	2018	Total	10.462	10.462	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
/ 1	1 2	2019	ARMY	2.034	2.034	.000													·					· ·							.0
1	1 2	2020	AF ^(‡)	3.859	.000	3.859	.322	.322	.322	.322	.322	.322	.322	.321	.321	.321	.321	.321													.(
1	1 2	2020	ARMY	5.112	.000	5.112	.426	.426	.426	.426	.426	.426	.426	.426	.426	.426	.426	.426													.0
1	1 2	2020	FMS ^(‡)	.681	.000	.681	.057	.057	.057	.057	.057	.057	.057	.057	.057	.056	.056	.056													.0
1	1 2	2020	Total	9.652	.000	9.652	.805	.805	.805	.805	.805	.805	.805	.804	.804	.803	.803	.803	-	-	-	-	-	-	-	-	-	-	-	-	.0
1	1 2	2021	AF ^(‡)	2.687	.000	2.687	-	-	-	-	-	-	-	-	-	-	-	-	.224	.224	.224	.224	.224	.224	.224	.224	.224	.224	.224	.223	.0
1	1 2	2021	ARMY	3.518	.000	3.518	-	-	-	-	-	-	-	-	-	-	-	-	.294	.294	.294	.294	.294	.294	.294	.294	.294	.294	.294	.284	
1	1 2	2021	FMS (‡)	2.541	.000	2.541	-	-	-	-	-	-	-	-	-	-	-	-	.212	.212	.212	.212	.212	.212	.212	.212	.212	.212	.212	.209	.(
1	1 2	2021	Total	8.746	.000	8.746	-	-	-	-	-	-	-	-	-	-	-	-	.730	.730	.730	.730	.730	.730	.730	.730	.730	.730	.730	.716	.(
1	1 2	2022	AF ^(‡)	1.175	.000	1.175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1
1	1 2	2022	ARMY	.900	.000	.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.9
1	\neg	2022	FMS (‡)	.523	.000	.523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.5
-	1 2	_	Total Base	2.598	.000	2.598	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5
1	+	2022					0	N O	D	J	F	М	Α	M	J	J	Α	S	0	N	D	J	F	M	Α	М	J	J	Α	S	
1	+	2022					С		E	Α	E	Α	P R	A Y	U N	U	U G	E P	C T	0 V	E	A N	E B	A R	P R	A Y	U N	U	U G	E P	

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	lements Thousands) PROC	ACCEPT PRIOR TO 1	vity / I	Budg	et Su 	b Act	tivity:			Line 8C700					nmary						C70		LASE	R HE	[DOD		SL	
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ds		PRIOR TO 1	BAL						i iscai ie	ar 2025											Fiscal Ye	ar 2026						
ds		TO 1	BAL				_				Ca	alendar \	ear 2025	5					_			Calen	dar Year	2026				٦ í
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								ı					l															
	61																											
7 AF ^(‡)	1.131	1.131	.000																									Π.
7 ARMY	4.362	4.362	.000																									Ι.
7 FMS ^(‡)	.965	.965	.000																									Ι.
7 Total	6.458	6.458	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-	Τ.
7 ARMY	1.323	1.323	.000											1			-		L	ı								Τ.
8 AF ^(‡)	5.158	5.158	.000																									Π.
8 ARMY	5.233	5.233	.000																									
8 FMS ^(‡)	.071	.071	.000																									
8 Total	10.462	10.462	.000	- [-	-	-	-	-	-	-	- [-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Τ.
9 ARMY	2.034	2.034	.000													ı.												Τ.
0 AF ^(‡)	3.859	3.859	.000																									
0 ARMY	5.112	5.112	.000																									
0 FMS ^(‡)	.681	.681	.000																									
0 Total	9.652	9.652	.000	-	-	-	-	- 1	-	-	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-	-	-	-	Τ.
1 AF ^(‡)	2.687	2.687	.000				ļ.			ļ					ļ													Τ.
1 ARMY	3.518	3.518	.000																									
1 FMS ^(‡)	2.541	2.541	.000																									
1 Total	8.746	8.746	.000	- [- 1	-	-	- 1	- 1	-	- 1	- 1	-	-	-	-	- 1	- 1	-	-	-	- 1	-	-	-	-	-	Τ.
2 AF ^(‡)	1.175	.000	1.175	.098	.098	.098	.098	.098	.098	.098	.098	.098	.098	.098	.097					l								Τ.
2 ARMY	.900	.000	-	.075	.075	.075	.075	.075	.075		.075	.075	.075		.075													
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7 8 8 8 6 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ARMY ARMY ARMY ARMY ARMY ARMY ARMY ARMY	ARMY 1.323 AF (‡) 5.158 ARMY 5.233 FMS (‡) .071 Total 10.462 ARMY 2.034 AF (‡) 3.859 ARMY 5.112 FMS (‡) .681 Total 9.652 AF (‡) 2.687 ARMY 3.518 FMS (‡) 2.541 Total 8.746 AF (‡) 1.175 ARMY 9.900 E FMS (‡) .523	ARMY 1.323 1	ARMY 1.323 1.323 .000 AF (‡) 5.158 5.158 .000 ARMY 5.233 5.233 .000 Total 10.462 10.462 .000 ARMY 2.034 2.034 .000 ARMY 5.112 5.112 .000 ARMY 5.112 5.112 .000 ARMY 5.112 5.112 .000 ARMY 5.681 .681 .000 AF (‡) .681 .681 .000 AF (‡) 2.687 2.687 .000 ARMY 3.518 3.518 .000 ARMY 3.518 3.518 .000 FMS (‡) 2.541 2.541 .000 Total 8.746 8.746 .000 AF (‡) 1.175 .000 1.175 ARMY .900 .000 .900 ARMY .900 .000 .523	ARMY 1.323 1.323 .000 AF (‡) 5.158 5.158 .000 FMS (‡) .071 .071 .000 ARMY 2.034 2.034 .000 ARMY 2.034 2.034 .000 ARMY 5.112 5.112 .000 FMS (‡) .681 .681 .000 AF (‡) 2.687 2.687 .000 ARMY 3.518 3.518 .000 FMS (‡) 2.541 2.541 .000 FMS (‡) 2.541 2.541 .000 Total 8.746 8.746 .000 ARMY 9.00 .000 9.00 .075 ARMY 9.00 .000 9.00 .075 ARMY 9.523 .000 2.598 .217 Total Base 2.598 .000 2.598 .217	ARMY 1.323 1.323 .000 ARMY 5.158 5.158 .000 ARMY 5.233 5.233 .000 Total 10.462 10.462 .000 ARMY 5.112 5.112 .000 ARMY 3.518 3.518 .000 FMS (‡) 2.687 2.687 .000 ARMY 3.518 3.518 .000 FMS (‡) 2.541 2.541 .000 Total 8.746 8.746 .000 AF (‡) 1.175 .000 1.175 .098 .098 ARMY .900 .000 .900 .075 .075 ARMY .900 .000 .523 .044 .044 Total Base 2.598 .000 2.598 .217 .217	ARMY 1.323 1.323 .000 AF (‡) 5.158 5.158 .000 ARMY 5.233 5.233 .000 Total 10.462 10.462 .000 ARMY 2.034 2.034 .000 ARMY 5.112 5.112 .000 ARMY 5.112 5.112 .000 FMS (‡) .681 .681 .000 ARMY 3.518 3.518 .000 ARMY 3.518 3.518 .000 FMS (‡) 2.541 2.541 .000 Total 8.746 8.746 .000 ARMY .000 .000 .075 .075 ARMY .900 .000 .900 .075 .075 C FMS (‡) .523 .000 2.598 .217 .217 Total Base 2.598 .000 2.598 .217 .217	ARMY 1.323 1.323 .000 AF (‡) 5.158 5.158 .000 FMS (‡) .071 .071 .000 ARMY 2.034 2.034 .000 ARMY 5.112 5.112 .000 FMS (‡) .681 .681 .000 AF (‡) 2.687 2.687 .000 ARMY 3.518 3.518 .000 FMS (‡) 2.541 2.541 .000 Total 8.746 8.746 .000	ARMY 1.323 1.323 .000 B AF (‡) 5.158 5.158 .000 B TOTAL 10.462 10.462 .000 B ARMY 2.034 2.034 .000 B ARMY 5.112 5.112 .000 B ARMY 5.112 5.112 .000 B TOTAL 9.652 9.652 .000 B ARMY 3.518 3.518 .000 B	ARMY 1.323 1.323 .000 AF (‡) 5.158 5.158 .000 FMS (‡) .071 .071 .000 ARMY 2.034 2.034 .000 ARMY 5.112 5.112 .000 ARMY 5.112 5.112 .000 FMS (‡) .681 .681 .000 ARMY 3.518 3.518 .000 ARMY 3.518 3.518 .000 FMS (‡) 2.541 2.541 .000 Total 8.746 8.746 .000	ARMY 1.323 1.323 .000 B AF (‡) 5.158 5.158 .000 B ARMY 5.233 5.233 .000 B FMS (‡) .071 .071 .000 B Total 10.462 10.462 .000	ARMY 1.323 1.323 .000 B AF (‡) 5.158 5.158 .000 B ARMY 5.233 5.233 .000 B FMS (‡) .071 .071 .000 B Total 10.462 10.462 .000	ARMY 1.323 1.323 .000 B AF (‡) 5.158 5.158 .000 B FMS (‡) .071 .071 .000 B TOTAL 10.462 10.462 .000 B FMS (‡) 3.859 3.859 .000 B FMS (‡) .681 .681 .000 D TOTAL 9.652 9.652 .000 B ARMY 3.518 3.518 .000 B ARMY 3.518 3.518 .000 B FMS (‡) 2.687 2.687 .000 B FMS (‡) 2.541 2.541 .000 B FMS (‡) 2.541 2.541 .000 B FMS (‡) 3.859 3.859 .000 B FMS (‡) 3.652 9.652 .000 B ARMY 3.518 3.518 .000 B FMS (‡) 2.541 2.541 .000 B FMS (‡) 2.541 2.541 .000 B FMS (‡) 2.541 2.541 .000 B FMS (‡) 3.518 3.518 3.000 B FMS (‡) 3.518 3.518 3.000 B FMS (‡) 3.518 3.000 B FMS (‡) 3.518 3.	ARMY 1.323 1.323 .000 AF (\$\phi\$) 5.158 5.158 .000 FMS (\$\phi\$) .071 .071 .000 ARMY 2.034 2.034 .000 AF (\$\phi\$) 3.859 3.859 .000 ARMY 5.112 5.112 .000 FMS (\$\phi\$) .681 .681 .000 Total 9.652 9.652 .000	ARMY 1.323 1.323 .000 AF (‡) 5.158 5.158 .000 ARMY 5.233 5.233 .000 B FMS (‡) .071 .071 .000 B Total 10.462 10.462 .000	ARMY 1.323 1.323 .000 AF (\$^{+}\$) 5.158 5.158 .000 ARMY 5.233 5.233 .000 Total 10.462 10.462 .000 ARMY 2.034 2.034 .000 ARMY 5.112 5.112 .000 ARMY 5.112 5.112 .000 Total 9.652 9.652 .000 ARMY 3.518 3.518 .000 FMS (\$^{+}\$) 2.541 2.541 .000 Total 8.746 8.746 .000 Total 8.746 .000	ARMY 1.323 1.323 .000 AF (+) 5.158 5.158 .000 ARMY 5.233 5.233 .000 FMS (+) 0.71 .071 .000 Total 10.462 10.462 .000 ARMY 2.034 2.034 .000 ARMY 5.112 5.112 .000 Total 9.652 9.652 .000 ARMY 3.518 3.518 .000 ARMY 3.518 3.518 .000 FMS (+) 2.687 2.687 .000 ARMY 3.518 3.518 .000 FMS (+) 1.175 .000 1.175 .098 .098 .098 .098 .098 .098 .098 .098	ARMY 1.323 1.323 .000 ARMY 5.233 5.233 .000 FMS (\$^{+}\$)	ARMY 1.323 1.323 .000 ARMY 5.138 5.158 .000 ARMY 5.233 5.233 .000 Total 10.462 10.462 .000	ARMY 1.323 1.323 .000 ARMY 5.233 5.233 .000 ARMY 5.233 5.233 .000 ARMY 2.034 2.034 .000 ARMY 2.034 2.034 .000 ARMY 5.112 5.112 .000 FMS (†)	ARMY	ARMY						

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20		Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL
	, social control and a special control and a	(BASIC/IHW/HFII)

		Produc	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref #	Manufacturer Name - Location	MSR For 2022	1-8-5 For 2022	MAX For 2022	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
	Lockheed Missile and Fire Ctrl - Orlando	1,200	6,000	11,000	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.

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

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^(‡) 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.

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface 2605C70302 / Joint Air-to-Ground MSLS (JAGM)

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0605450A

Line Item MDAP/MAIS Code: 355

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	2,004	1,067	537	386	-	386	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	568.727	199.295	196.548	152.177	-	152.177	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	64.456	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	504.271	199.295	196.548	152.177	-	152.177	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	64.456	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	568.727	199.295	196.548	152.177	-	152.177	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request:	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	283.796	186.781	366.011	394.241	-	394.241	-	-	-	-	-	-

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.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	1,067	537	386	-	386	-	-	-	-
	Total Obligation Authority	199.295	196.548	152.177	-	152.177	-	-	-	-
Total:	Quantity	1,067	537	386	-	386	-	-	-	-
Secondary Distribution	Total Obligation Authority	199.295	196.548	152.177	-	152.177	-	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface 2605C70302 / Joint Air-to-Ground MSLS (JAGM)

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: 0605450A

Date: May 2021

Line Item MDAP/MAIS Code: 355

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

	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C70302 / Joint Air-to-Ground MSLS (JAGM)	P-5a, P-21			2,004 / 568.727	1,067 / 199.295	537 / 196.548	386 / 152.177	- / -	386 / 152.177
P-40	Total Gross/Weapon System Cost				2,004 / 568.727	1,067 / 199.295	537 / 196.548	386 / 152.177	- 1 -	386 / 152.177

^{*}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 P-40 quantity of 1067 in FY20 is incorrect and the correct quantity of 494 is reflected in the P-5 and P-21 forms. The Prior Years Total is incorrect and the correct quantity of 1,993 is reflected in the P-5 and P-21 forms

FY 2022 procurement dollars in the amount of \$152.177M supports the procurement of 386 missiles, 8 Captive Air Training Missiles (CATM), Project Management Cost and Engineering Services funding.

The Army intends to convert any price advantage created through contract negotiations and/or other service procurement to increase the Army procurement of JAGM missiles.

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.

Date: May 2021 Exhibit P-5, Cost Analysis: PB 2022 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2032A / 02 / 20 2605C70302 / Joint Air-to-Ground MSLS (JAGM) C70302 / Joint Air-to-Ground MSLS (JAGM)

ID Code (A=Service Ready, B=Not Service Ready):		MI	DAP/MAIS Code:			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	2,004	1,067	537	386	-	386
Gross/Weapon System Cost (\$ in Millions)	568.727	199.295	196.548	152.177	-	152.177
Less PY Advance Procurement (\$ in Millions)	64.456	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	504.271	199.295	196.548	152.177	-	152.177
Plus CY Advance Procurement (\$ in Millions)	64.456	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	568.727	199.295	196.548	152.177	-	152.177
(The following Resource Summary rows are for information	onal purposes only. The cor	responding budget request	s are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	283.796	186.781	366.011	394.241	-	394.241

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

	Pi	rior Years	i		FY 2020			FY 2021		F۱	1 2022 Ba	se	F۱	2022 OC	0	F۱	2022 Tot	:al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
All Up Rounds (AUR) ^(†)	192.801	1,993	384.252	212.043	494	104.749	211.778	537	113.725	242.821	386	93.729	-	-	-	242.821	386	93.72
Engineering Services	-	-	36.647	-	-	28.539	-	-	21.033	-	-	14.471	-	-	-	-	-	14.47
Guidance Section Long Lead Items	-	-	38.600	-	-	-	-	-	-		-	-	-	-	-	-		-
Acceptance Testing	-	-	1.224	-	-	1.915	-	-	1.967	-	-	2.006	-	-	-	-	-	2.00
Subtotal: Recurring Cost	-	-	460.723	-	-	135.203	-	-	136.725	-	-	110.206	-	-	-	-	-	110.20
Non Recurring Cost	,				,		•								,			
HELLFIRE Backend Long Lead Items	-	-	25.856	-	-	-	-	-	-		-	-	-	-	-	-		-
Tooling and Test Equipment	-	-	6.785	-	-	7.046	-	-	6.066	-	-	4.412	-	-	-	-	-	4.41
Subtotal: Non Recurring Cost	-	-	32.641	-	-	7.046	-	-	6.066	-	-	4.412	-	-	-	-	-	4.41
Subtotal: Flyaway Cost	-	-	493.364	-	-	142.249	-	-	142.791	-	-	114.618	-	-	-	-	-	114.61
Support - Fielding Cost																		
Fielding	-	-	0.890	-	-	0.906	-	-	0.902	-	-	0.261	-	-	-	-	-	0.26
Subtotal: Support - Fielding Cost	-	-	0.890	-	-	0.906	-	-	0.902	-	-	0.261	-	-	_	-	-	0.26

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Exhibit P-5, Cost Analysis: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20

P-1 Line Item Number / Title:

Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS

47

2605C70302 / Joint Air-to-Ground MSLS (JAGM)

(JAGM)

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.

	F	Prior Years	;		FY 2020			FY 2021		FY	2022 Bas	se	F	Y 2022 OC	0	F	/ 2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Initial Spares and Repair Parts	-	-	-	-	-	1.926	-	-	1.221	-	-	1.981	-	-	-	-	-	1.98
Subtotal: Support - Initial Spares and Repair Parts Cost	-	-	-	-	-	1.926	-	-	1.221	-	-	1.981	-	-	-	-	-	1.98
Support - Non-Recurring Supp	port Cost																	
Facilitization	-	-	19.459	-	-	20.273	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Non- Recurring Support Cost	-	-	19.459	-	-	20.273	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Enginee	ring Cost																	
Production Engineering	-	-	32.684	-	-	11.277	-	-	19.916	-	-	16.159	-	-	-	-	-	16.15
Subtotal: Support - Production Engineering Cost	-	-	32.684	-	-	11.277	-	-	19.916	-	-	16.159	-	-	-	-	-	16.15
Support - Program Manageme	ent Cost							<u>'</u>										
Government Management	-	-	18.415	-	-	15.579	-	-	14.432	-	-	14.123	-	-	-	-	-	14.12
Subtotal: Support - Program Management Cost	-	-	18.415	-	-	15.579	-	-	14.432	-	-	14.123	-	-	-	-	-	14.12
Support - System Test and Ev	aluation Cost																	
Test and Evaluation Support	-	-	3.915	-	-	7.085	-	-	17.286	-	-	5.035	-	-	-	-	-	5.03
Subtotal: Support - System Test and Evaluation Cost	-	-	3.915	-	-	7.085	-	-	17.286	-	-	5.035	-	-	-	-	-	5.03
Gross/Weapon System Cost	283.796	2,004	568.727	186.781	1,067	199.295	366.011	537	196.548	394.241	386	152.177	-	-	-	394.241	386	152.17

Remarks:

Due to efficiencies obtained by concurrent resolution of JAGM and HELLFIRE obsolescence issues, reduction of HELLFIRE funding will increase unit cost of JAGM AUR.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	1,067	537	386	-	386
	Total Obligation Authority	199.295	196.548	152.177	-	152.177
Total:	Quantity	1,067	537	386	-	386
Secondary Distribution	Total Obligation Authority	199.295	196.548	152.177	-	152.177

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 A	Army	Date: May 2021
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)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
All Up Rounds (AUR) ^(†)		2017	Lockheed Martin / Orlando	C / FPIF	Redstone Arsenal, AL	Aug 2018	Dec 2018	373	165.980	Y		Feb 2015
All Up Rounds (AUR) ^(†)		2018	Lockheed Martin / Orlando	C / FPIF	Redstone Arsenal, AL	Sep 2018	Mar 2020	899	170.284	Y		Feb 2015
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	211.778	Y		Jun 2019
All Up Rounds (AUR) ^(†)		2022	Lockheed Martin / Orlando	SS / FPIF	Redstone Arsenal, AL	Jun 2022	Oct 2024	386	242.821	Y		Sep 2020

^(†) indicates the presence of a P-21

_		P-21, Pr																	_					e: Ma						
		riation / 02 / 20	Budge	et Acti	ivity /	Budç	get S	ub Ac	ctivity	' :	- 1	1 Line 05C70						//SLS	(JAG	M)				302 <i>I</i>	nber / Joint				SLS	
			lements in Each)						,		Fiscal	Year 2018	3		,								Fiscal Y	ear 2019						E
				ACCEPT										Calenda	r Year 2	018		1			_			Caler	ndar Year	2019				í
M O F C R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C
All Up	Round	ls (AUR)																			,									
1	2017	ARMY	373	0	373											Α -	-	-	-	13	19	-	96	-	-	6	27	29	30	
1	2017	NAVY (‡)	104	0	104											Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	2017	Total	477	0	477											-	-	-	-	13	19	-	96	-	-	6	27	29	30	
1	2018	ARMY	899	0	899												Α -	-	-	_	-	-	-	-	-	-	-		-	
1	2019	ARMY	721	0	721																									
1	2019	NAVY (‡)	75	0	75																									
1	2019	Total	796	0	796																									
1	2020	AF ^(‡)	43	0	43																									
1	2020	ARMY	494	0	494																									
1	2020	FMS (‡)	1	0	1																									
1	2020	NAVY (‡)	320	0	320																									
1	2020	_	858	0	858																									
1	2021	AF ^(‡)	2	0	2																									П
1	2021	ARMY	537	0	537																									
1	2021	NAVY (‡)	161	0	161																									
_	2021	+	700	0	700																									
_	2022		386	0	386		-																							
1	2022	NAVY (‡)	164	0	164																									
1	2022	Total	550	0	550		-																							
		,				O C T	N O V	D E C	J A N	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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	nib	it P-21, I	Product	ion Sc	hedu	le: PE	3 202	2 Arm	у														Date	: May	/ 2021	1				
		priation 1 02 / 20		et Acti	vity /	Budg	jet Sı	ıb Ac	tivity:			Line 5C70					und M	SLS (JAGN	M)				302 /			[DOD -Grou		SLS	
			t Elements its in Each)						_		Fiscal Y	ear 2020											Fiscal Ye							E
M				ACCEPT PRIOR	BAL								C	Calendar	Year 202	:0	1						-	Calen	dar Year	2021				L
) F	:	FY SERVI	PROC E QTY	TO 1 OCT 2019	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C
All U	p Ro	unds (AUR)								,															'					
1	20	017 ARMY	373	220	153	30	-	62	34	27	-	-	-	-	-	-	-													
1	20	017 NAVY ^{(‡}	104	0	104	-	-	-	-	-	-	-	-	51	31	16	6													
1	20	017 Total	477	220	257	30	-	62	34	27	-	-	-	51	31	16	6	-	-	-	-	-	-	-	-	-	-	-	-	
1	20	018 ARMY	899			-	-	-	-	-	50	-	-	-	2	70	30	82	45	-	47	38	44	44	50	50	40	34	46	+
1	20	_	721				Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	20	019 NAVY ^{(‡}	75	0	75		Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	20		796	0	796		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	20	020 AF ^(‡)	43	0	43																		A -	-	-	-	-	-	-	
1	20	020 ARMY	494	0	494																		Α -	-	-	-	-	-	-	
1	20	020 FMS ^(‡)	1	0	1																		Α -	-	-	-	-	-	-	
1	20	020 NAVY ^{(‡}	320	0	320																		Α -	-	-	-	-	-	-	
1	20	020 Total	858	0	858																		-	-	-	-	-	-	-	
1	20	021 AF ^(‡)	2	0	2																				Α -	-	-	-	-	
1	20	021 ARMY	537	0	537																				Α -	-	-	-	-	
1	20	021 NAVY ^{(‡}	161	0	161																				A -	-	-	-	-	
1	20	021 Total	700	0	700																				-	-	-	-	-	
1	20	022 ARMY	386	0	386																			· ·						
1	20	022 NAVY ^{(‡}	164	0	164																									
1	20	022 Total	550	0	550																									
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exr	nib	it P	-21, Pro	oducti	on Sc	hedul	le: PE	3 202	2 Arm	y														Date	: Ma	y 2021	1				
			ation / 2 / 20	Budge	et Acti	vity /	Budg	jet Sı	ıb Act	tivity:			Line I 5C703					ınd M	SLS (JAGI	M)				302 <i>I</i>	iber / Joint /				SLS	
				lements in Each)								Fiscal Ye	ar 2022											Fiscal Yo	ear 2023						В
					ACCEPT									С	alendar	Year 202	2								Caler	dar Year	2023				L
M D F C R	:	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C
		ounds	(AUR)																												
	_		ARMY	373	373	0																									$\overline{}$
1	2	2017	NAVY (‡)	104	104	0																									
1	2	_	Total	477	477	0	-	-	-	-	-	-	-	-	-	-	-	-	-	- [-	-	-	-	-	-	-	-	-	-	_
1	2	2018	ARMY	899	672	227	45	45	45	40	40	12																			
1	2	2019	ARMY	721	0	721	-	-	-	-	-	43	44	44	44	43	44	69	69	68	94	94	65							[\equiv
1	2	2019	NAVY (‡)	75	0	75	-	-	-	-	-	7	6	6	6	7	6	6	6	7	6	6	6								ı
1	2	019	Total	796	0	796	-	-	-	-	-	50	50	50	50	50	50	75	75	75	100	100	71	-	-	-	-	-	-	-	
1	2	2020	AF ^(‡)	43	0	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	-	-	-	ı
1	2	2020	ARMY	494	0	494	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	66	68	68	68	
1	2	2020	FMS ^(‡)	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	2	2020	NAVY (‡)	320	0	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	34	32	32	32	
1	2	020	Total	858	0	858	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	100	100	100	:
1	2	2021	AF ^(‡)	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	2	2021	ARMY	537	0	537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	2	2021	NAVY (‡)	161	0	161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	2	021	Total	700	0	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
1	2	2022	ARMY	386	0	386							,		Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
1	2	2022	NAVY (‡)	164	0	164									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	2	022	Total	550	0	550									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ę
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	lements in Each)	ACCEPT PRIOR TO 1 OCT	BAL DUE		et Su	ib Act	ivity:			Line I 5C703						SLS (JAGN	Л)				302 <i>1</i> .	ber / Joint /				SLS
(Units SERVICE Inds (AUR)	PROC	PRIOR TO 1 OCT	DUE						Fiscal Ye	2024																	
nds (AUR)		PRIOR TO 1 OCT	DUE	_						ar 2024							_			F	iscal Ye	ar 2025					
nds (AUR)		TO 1 OCT	DUE	_							C	alendar `	Year 202	4								Calen	dar Year	2025			
		2023	AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J 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
17 ADMV				,				'						,				'									
II AISWII	373	373	0																								
17 NAVY (‡)	104	104	0																								
7 Total	477	477	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 ARMY	899	899	0				,										,										
19 ARMY	721	721	0																								
19 NAVY (‡)	75	75	0																								
19 Total	796	796	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 AF ^(‡)	43	43	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			·		,			
20 ARMY	494	294	200	68	68	64	-	-	-	-	-	-	-	-	-	-	-	-	-								
20 FMS (‡)	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1								
	320	163	157	32	32	32	32	29	-	-	-	_		_	-	-	-	_									
20 Total	858		358	100	100	96			-	-	-	-	-	-	-	-	-	-	1	- [-	- [-	-	-	-	
	2		2	-	_	-	-	-	2	-	-	_		-	-												
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22 Total	550	0		-	-	-	-	-	-	-	-	-	-	-	-		47	46		46		46	46				45
				0	N O	D E	J A	F E	M A	A P	M A	J	Ŋ	A U	S E	0	N O	D	J A	F E	M A	A P	м	Ŋ	J	A U	S E P
118 119 119 119 119 119 119 119 119 119	B ARMY D ARMY D ARMY D ARMY D Total D AF (‡) D ARMY D FMS (‡) D NAVY (‡) D Total AF (‡) D NAVY (‡) D Total AF (‡) D ARMY D Total AF (‡) ARMY D ARMY D ARMY D ARMY D NAVY (‡) D Total D NAVY (‡) D NAVY (‡)	8 ARMY 899 9 ARMY 721 0 NAVY (‡) 75 0 Total 796 0 AF (‡) 43 0 ARMY 494 0 FMS (‡) 1 1 NAVY (‡) 320 0 Total 858 AF (‡) 2 ARMY 537 NAVY (‡) 161 Total 700 2 ARMY 386 2 NAVY (‡) 164	8 ARMY 899 899 ARMY 721 721 NAVY (‡) 75 75 Total 796 796 AF (‡) 43 43 ARMY 494 294 D FMS (‡) 1 0 NAVY (‡) 320 163 Total 858 500 AF (‡) 2 0 ARMY 537 0 NAVY (‡) 161 0 Total 700 0 ARMY 386 0	8 ARMY 899 899 0 9 ARMY 721 721 0 10 NAVY (†) 75 75 0 10 Total 796 796 0 10 AF (†) 43 43 0 11 ARMY 494 294 200 12 NAVY (†) 320 163 157 13 Total 858 500 358 14 AF (†) 2 0 2 15 ARMY 537 0 537 15 NAVY (†) 161 0 161 15 Total 700 0 700 15 ARMY 386 0 386 15 ARMY 164 0 164	8 ARMY 899 899 0 9 ARMY 721 721 0 10 NAVY (‡) 75 75 0 10 Total 796 796 0 - 10 AF (‡) 43 43 0 - 10 ARMY 494 294 200 68 10 FMS (‡) 1 0 1 - 10 NAVY (‡) 320 163 157 32 10 Total 858 500 358 100 10 AF (‡) 2 0 2 - 10 ARMY 537 0 537 - 10 NAVY (‡) 161 0 161 - 10 Total 700 0 700 - 10 ARMY 386 0 386 - 10 ARMY (‡) 164 0 164 -	B ARMY 899 899 0 D ARMY 721 721 0 D NAVY (‡) 75 75 0 Total 796 796 0 D ARMY 494 294 200 68 68 FMS (‡) 1 0 1 D NAVY (‡) 320 163 157 32 32 Total 858 500 358 100 100 AF (‡) 2 0 2 ARMY 537 0 537 NAVY (‡) 161 0 161 Total 700 0 700 E ARMY 386 0 386 E NAVY (‡) 164 0 164 E NAVY (‡) 164 0 164 E Total 550 0 550 E Tota	8 ARMY 899 899 0 9 ARMY 721 721 0 10 NAVY (‡) 75 75 0 10 Total 796 796 0	8 ARMY 899 899 0 0	B ARMY 899 899 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 ARMY 899 899 0 3 ARMY 721 721 0 3 NAVY (‡) 75 75 0 1 Total 796 796 0	3 ARMY 899 899 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 ARMY 899 899 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 ARMY 899 899 0 9 ARMY 721 721 0 9 NAVY (‡) 75 75 0 10 Total 796 796 0	8 ARMY 899 899 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 ARMY 899 899 0 3 ARMY 721 721 0 3 NAVY (†) 75 75 0 1 Total 796 796 0	3 ARMY 899 899 0 3 ARMY 721 721 0 3 NAVY (†) 75 75 0 1 Total 796 796 0	\$ ARMY \$ 899 \$ 899 \$ 0 \$ 0 ARMY \$ 721 \$ 721 \$ 0 \$ 0 \$ 0 ARMY \$ 75 \$ 75 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	\$ ARMY \$ 899 \$ 899 \$ 0	ARMY 899 899 0 ARMY 721 721 0 NAVY 75 75 0	ARMY 899 899 0 ARMY 721 721 0 ARMY 721 721 0 ARMY 75 75 0 ARMY 75 75 0 ARMY 796 796 0 - - - - - - - - -	ARMY 899 899 0 ARMY 721 721 0 NAVY (*) 75 75 0 Total 796 796 0	ARMY 899 899 0 ARMY 721 721 0 ARMY 725 75 0 ARMY 899 899 0 ARMY 899 899 0 ARMY 896 897 89 0 ARMY 896 898 899 899 899 899 899 899 899 899	ARMY 889 889 0 ARMY 721 721 0 NAVY (**) 75 75 0 Total 796 796 0	ARMY 899 899 0 ARMY 721 721 0 75 75 0 75 75 0 75 75	ARMY	ARMY 899 899 0	ARMY

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
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)

		Produc	ction Rates (Each	/ Year)				Procurement Lea	adtime (Months)		-	
MFR	8					Init	tial			Reo	rder	
Ref #		MSR For 2022	1-8-5 For 2022	MAX For 2022	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 2021 and FY 2022 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.

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

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^(‡) 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.

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface | 2607C71300 / Long Range Precision Munition

Missile System

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	170	179	-	179	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	38.107	44.744	-	44.744	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	38.107	44.744	-	44.744	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	38.107	44.744	-	44.744	-	-	-	-	-	-
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	*	*	i i	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	-	224.159	249.966	-	249.966	-	-	-	-	-	-

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.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	170	179	-	179	-	-	-	-
	Total Obligation Authority	-	38.107	44.744	-	44.744	-	-	-	-
Total:	Quantity	-	170	179	-	179	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	38.107	44.744	-	44.744	-	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

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 Munition

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C71304 / LRPM-INTERIM	P-5a, P-21			- / -	- / -	170 / 38.107	179 / 44.744	- / -	179 / 44.744
P-40	Total Gross/Weapon System Cost				- 1 -	- 1 -	170 / 38.107	179 / 44.744	- 1 -	179 / 44.744

^{*}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 2022 Base procurement dollars in the amount of \$44.744 million supports the Army Directed Requirement, Spike Non-Line of Sight (NLOS), for Army AH-64D/E: procurement of 179 missiles, Project Management Cost, and Engineering Services funding.

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.

							U	NCLAS:	SIFIEL)								
Exhibit P-5, Cost	Analysis	s: PB 20)22 Arm	y									ı	Date: M	ay 2021			
Appropriation / B 2032A / 02 / 20	udget A	ctivity /	Budget	Sub Act	ivity:	I	Line Item 7C71300				lunition					Title [DOI INTERIM		
ID Code (A=Service Read	ly, B=Not Servi	ice Ready):				'		_	М	DAP/MAIS	Code:							
F	Resource	Summ	ary			Prior Ye	ars	FY 20	20	FY	2021	FY	2022 Bas	e F	Y 2022 (ОСО	FY 2022	Total
Procurement Quantity (Uni	its in Each)						-				1	70		179		-		17
Gross/Weapon System Co		ıs)					-		-		38.10	07	44	.744		-		44.74
Less PY Advance Procure	ment (\$ in Mi	llions)					-		-					-		-		
Net Procurement (P-1) (\$ i	n Millions)						-		-		38.10	07	44	.744		-		44.74
Plus CY Advance Procure	ment (\$ in Mil	lions)					-		-		-			-		-		_
Total Obligation Authorit	y (\$ in Millions	s)					-		-		38.10	07	44	.744		-		44.74
(TI	he following l	Resource S	ummary rov	ws are for info	rmational p	urposes onl	y. The corres	ponding bud	get request	s are docume	ented elsew	here.)				·		
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in 1	Thousands)					-		-		224.1	59	249	.966		-		249.966
					1							1						
Note: Subtotals or Totals in	n this Exhibit	P-5 may n	ot be exact	or sum exact	y due to rou	ınding.												
	F	Prior Year	S		FY 2020			FY 2021		FY	′ 2022 Bas	e	FY	2022 OC	0	FY	2022 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	. , ,			, ,			. ,	. ,		. ,	. ,					,		
Recurring Cost																		
All Up Rounds ^(†)	-	-	-	-	-	-	232.758	153	35.612	237.419	179	42.498	-	-	-	237.419	179	42.49
Recurring Engineering	-	-	-	-	-	-	-	-	0.558	-	-	0.570	-	-	-	-	-	0.57
Acceptance Testing	-	-	-	-	-	-	-	-	0.026	-	-	0.027	-	-	-	-	-	0.02
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	36.196	-	-	43.095		-	-	-	-	43.09
Subtotal: Flyaway Cost Support - Program Manageme		-	_	-	-	_	-	-	36.196	-	-	43.095	-	-	-	-	-	43.09
Government Management	-	-	_	-	-	-	-	-	1.911	-	-	1.649	-	-	-	-	-	1.649
Subtotal: Support - Program Management Cost	-	-	-	-	-	-	-	-	1.911	-	-	1.649	-	-	-	-	-	1.64
Gross/Weapon System Cost	-	-	-	-	-	-	224.159	170	38.107	249.966	179	44.744	-	-	-	249.966	179	44.74
	Soo	andam: D					EV	2020		FY 2021		FY 2 Ba			FY 2022 OCO		FY 202 Total	
A	Sec		istribution	1			ГТ.	2020		F1 2021	170	Da	Se 179	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	000	-	IOLAI	
Army			antity al Obligation /	Authority				-			38.107		44.744			-		44.74
Total:			antity	autonty							170		179	_		-		179
Secondary Distribution		_	al Obligation	Authority				-			38.107		44.744			-		44.74
(†) indicates the prese	nce of a P-	5a																

LI 2607C71300 - Long Range Precision Munition Army

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P-1 Line #9

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Exhibit P-5a, Procurement History and Planning: PB 2022 A	ırmy	Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 20	2607C71300 / Long Range Precision Munition	C71304 / LRPM-INTERIM

Cost Elements	0 C 0	EV	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
All Up Rounds ^(†)		2021	Lockheed Martin / Orlando, FL	C / CPFF	Redstone Arsenal	Jun 2021	Feb 2023	(Each) 153	(\$ K) 232.758	N N	Available	Apr 2020
All Up Rounds ^(†)		2022	Lockheed Martin / Orlando, FL	Option / CPFF	Redstone Arsenal	Jan 2022	Jul 2023	179	237.419	N		Apr 2020

^(†) indicates the presence of a P-21

Ext	hib	it P	-21, Pro	oduct	ion Sc	hedu	le: PE	3 202	2 Arm	ıy														Date	e: Ma	y 202	1				
	_	_	i ation / 1 12 / 20	Budg	et Acti	vity /	Budg	get Su	ıb Ac	tivity	:				Num Long			ecisio	n Mui	nition				1			Title M-INT	-	_		
		Cost Elements																						Fiscal Y	ear 2022						В
	M ACCEPT Calendar Year 2021 PRIOR BAL															Caler	dar Year	2022				į į į									
O F C F O #	₹	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J U L	A U G	S E P	A N C E
All U	lp Ro	ounds								,					<u>'</u>											,					
1	1 2	2021	ARMY	153	0	153		_							Α -	-	-	-	-	-	-	-	-	-	-	-	-	- '	-	- 1	153
1	1 2	2022	ARMY	179	0	179																Α -	-	-	-	-	-	-	-	- 1	179
												M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J U L	A U G	S E P	

E	hik	oit P	-21, Pro	oduct	ion Sc	hedu	le: PE	3 202	2 Arm	ıy														Date	: Ma	y 202	1				
-	-	-	ation / 1 2 / 20	Budge	et Acti	vity /	Budç	get Sı	ıb Ac	tivity	•		_		-	ber / Rang			ո Mur	nition								[DOI			
				ements n Each)								Fiscal Yo	ear 2023											Fiscal Ye	ar 2024						В
					ACCEPT									С	alendar	Year 202	3								Caler	ndar Yea	2024				L
0 0		FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	A N C E
All	Up R	Rounds																													
	1 2	2021	ARMY	153	0	153	-	-	-	-	20	20	20	20	20	20	20	13													
	1 2	2022	ARMY	179	0	179	-	-	-	-	-	-	-	-	-	20	20	20	20	20	20	20	20	19							
	,	,				,	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U 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	N N	U U	A U G	S E P	

Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 20	2607C71300 / Long Range Precision Munition	C71304 / LRPM-INTERIM

		Produc	ction Rates (Each	/ Year)				Procurement Lea	adtime (Months)			
MFR						Init	tial			Reo	rder	
Ref #	Manufacturer Name - Location	MSR For 2022	1-8-5 For 2022	MAX For 2022	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, FL	20	220	240	0	0	18	18	0	0	18	18

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

22 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

Activity:

P-1 Line Item Number / Title:

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

0648CC0007 / Javelin (AAWS-M) System Summary

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604611A

Line Item MDAP/MAIS Code: 280

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	33,089	697	768	376	-	376	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	5,336.132	142.794	181.325	120.842	-	120.842	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5,235.510	142.794	181.325	120.842	-	120.842	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,336.132	142.794	181.325	120.842	-	120.842	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request:	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	161.266	204.869	236.100	321.388	-	321.388	-	-	-	-	-	-

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. In current conflicts the CLU is being 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.

				FY 2022	FY 2022	FY 2022				
Secondary	/ Distribution	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	697	768	376	-	376	-	-	-	-
	Total Obligation Authority	142.794	181.325	120.842	-	120.842	-	-	-	-
Total:	Quantity	697	768	376	-	376	-	-	-	-
Secondary Distribution	Total Obligation Authority	142.794	181.325	120.842	-	120.842	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

0648CC0007 / Javelin (AAWS-M) System Summary

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604611A

Line Item MDAP/MAIS Code: 280

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

	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	H06102 / JAVELIN (AAWS-M)	P-5a, P-21			33,089 / 5,336.132	697 / 142.794	763 / 165.355	290 / 76.648	- / -	290 / 76.648
P-5	H06103 / Javelin Lightweight Command Launch Unit (CLU)	P-5a, P-21			- / -	- / -	5 / 15.970	86 / 44.194	- / -	86 / 44.194
P-40	Total Gross/Weapon System Cost				33,089 / 5,336.132	697 / 142.794	768 / 181.325	376 / 120.842	- 1 -	376 / 120.842

^{*}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 FY2022 Base procurement dollars in the amount of \$76.648 million supports the production of 290 missiles.

H06103 FY2022 Base procurement dollars in the amount of \$44.194 million supports initial production facilitization and low-rate initial production of 86 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 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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Date: May 2021 Exhibit P-5, Cost Analysis: PB 2022 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2032A / 02 / 30 0648CC0007 / Javelin (AAWS-M) System Summary H06102 / JAVELIN (AAWS-M)

ID Code (A=Service Ready, B=Not Service Ready):	·	M	DAP/MAIS Code:	·		
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	33,089	697	763	290	-	290
Gross/Weapon System Cost (\$ in Millions)	5,336.132	142.794	165.355	76.648	-	76.648
Less PY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5,235.510	142.794	165.355	76.648	-	76.648
Plus CY Advance Procurement (\$ in Millions)	100.622	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,336.132	142.794	165.355	76.648	-	76.648
(The following Resource Summary rows are for informati	onal purposes only. The cor	responding budget reques	ts are documented elsewher	re.)		3
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	161.266	204.869	216.717	264.303	-	264.303

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

	F	rior Years	3		FY 2020			FY 2021		FΥ	′ 2022 Bas	e	FY	/ 2022 OC	0	FY	2022 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Flyaway Cost	·			<u> </u>	'		'	'		'	'		'			'	'	
Recurring Cost																		
All Up Round ^(†)	107.492	32,142	3,455.008	143.150	672	96.197	175.203	763	133.680	192.772	290	55.904	-	-	-	192.772	290	55.90
Engineering Services	-	-	188.236	-	-	8.121	-	-	8.248	-	-	9.860	-	-	-	- 1	-	9.86
Acceptance Testing	-	-	59.223	-	-	1.043	-	-	1.161	-	-	1.608	-	-	-	-	-	1.60
Production Engineering	-	-	117.648	-	-	4.837	-	-	4.934	-	-	5.048	-	-	-	-	-	5.04
CLU Retrofits	117.203	1,048	122.829	170.000	25	4.250	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Change Orders	-	-	-	-	-	1.008	-	-	0.101	-	-	-	-	-	-	-	-	-
Publications/Technical Data	-	-	-	-	-	0.078	-	-	0.079	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	3,942.944	-	-	115.534	-	-	148.203	-	-	72.420	-	-	-	-	-	72.42
Non Recurring Cost										· ·								
Obsolescence and Cost Reduction	-	-	-	-	-	23.127	-	-	-	-	-	-	-	-	-	-	-	-
G-Model Production Facilitization	-	-	-	-	-	-	-	-	9.908	-	-	-	-	-	-	-	-	-
IM Compliance	-	-	-	-	-	-	-	-	3.172	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	23.127	-	-	13.080	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	3,942.944	-	-	138.661	-	-	161.283	-	-	72.420	-	-	-	-	-	72.42

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Exhibit P-5, Cost Analysis: PB 2022 Army

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

P-1 Line Item Number / Title:
0648CC0007 / Javelin (AAWS-M) System Summary

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.

110to: Gabtotalo di Totalo II					,													
	F	Prior Years	6		FY 2020			FY 2021		F	1 2022 Ba	se	F'	1 2022 OC	0	F	Y 2022 Tot	.al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Government Management	-	-	1,393.188	-	-	4.133	-	-	4.072	-	-	4.228	-	-	-	-	-	4.228
Subtotal: Support - Program Management Cost	-	-	1,393.188	-	-	4.133	-	-	4.072	-	-	4.228	-	-	-	-	-	4.228
Gross/Weapon System Cost	161.266	33,089	5,336.132	204.869	697	142.794	216.717	763	165.355	264.303	290	76.648	-	-	-	264.303	290	76.648

Remarks:

Due to reduced total program funding, the estimated missile unit price in FY22 is based on combined US Army, other services and FMS procurements of 650 missiles per year, which is below the Minimum Sustaining Rate (MSR) of 850. The estimated missile unit price for FY20 and FY21 is based on combined procurement of 850 missiles per year. If cost savings can be generated in FY22, funds will be used to continue G-model production facilitization.

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.https://pandr.altess.army.mil/#!/item/H06102/type/BABY/itemDashboard

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	697	763	290	-	290
	Total Obligation Authority	142.794	165.355	76.648	-	76.648
Total:	Quantity	697	763	290	-	290
Secondary Distribution	Total Obligation Authority	142.794	165.355	76.648	-	76.648

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 A	Army	Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 30	0648CC0007 / Javelin (AAWS-M) System Summary	H06102 / JAVELIN (AAWS-M)

Cost Elements	000	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Revision	RFP Issue Date
All Up Round ^(†)		2020	JJV All Up Round <i>I</i> Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Jul 2020	Jun 2022	672	143.150	Υ		Aug 2018
All Up Round ^(†)		2021	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Apr 2021	Mar 2023	763	175.203	Υ		Oct 2019
All Up Round ^(†)		2022	JJV All Up Round / Tucson AZ Orlando FL	SS / FFP	AMCOM, Redstone Arsenal, AL	Apr 2022	Mar 2024	290	192.772	Υ		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

Appropriation / Budget Activity / Budget Sub Activity: Cost Etements	Exh	ibit l	P-21, Pr	oducti	on Sc	hedu	le: Pl	B 202	2 Arn	ny														Date	e: Ma	y 202	1				
Thin Standard Control Stan	۱pp	ropi	iation /							-	:								ystem	n Sum	nmary	,									
No.			Cost E (Units	lements in Each)								Fiscal \	ear 2020	0										Fiscal Y	ear 2021						В
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1 202 FMS (\$ 123 0 0 123 0 0 123 0 0 0 0 0 0 0 0 0				42																											
1 2020 MC (#) 123 0 123 123 133 0 123 134 135	1	2020	ARMY	672	0	672										Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
1 2020 MC (#) 123 0 123 123 133 0 123 134 135	1	2020	FMS (‡)	507	0	507										Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
1 2020 2021 202	1	2020		123	0	123										Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
1 2020 Total 1,706 0	1	2020		13	0	13		_							_	Α -	-	-	-	-	-	-	_	-	-	_	-	_	-	_	
1 202 Total 1,706 0	_														_	-	<u> </u>	_	_	_	<u> </u>	_			_	_	_	_	_		3
1 2021 ARMY 763 0 763 0 763 A	_					_									_	+	-					_									_
1 2021 FMS (‡) 193 0 193 -				-											_		1	1	1	1											7
1 2021 MC(‡) 99 0 99 0 99 0 99 0 -						_									-												_	-			1
1 2021 NAVY (‡) 3 0 3 A	_																														
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M F SERVI	30 Cost Elements Units in Each) PROC QTY 3: 32142 (672 ‡) 507 0 123 ((‡) 13	ACCEPT PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	o c T	N O V	D E C	J A N				007 /		lin (A	AWS		ystem o c	N O	mary D	J	F		102 / ear 2025 Caler	JAVE	2025 J	[DOD AAWS	S-M)	s
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All Up Round Prior Years Deliveries: 1 2020 ARMY 1 2020 FMS (‡) 1 2020 MC (‡) 1 2020 NAVY (1) 1 2020 OTH (‡) 1 2020 Total	s: 32142 (672 ‡) 507 0 123 (‡) 13	672 507 123	0 0	·	V		N	В	R	R	ı	N		G	Р		V	C	A N	E B	Α	P	A Y	U	U L	Ū	E P
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1 2021 ARMY	763	616	147	88	59	-	-	-																			
1 2021 FMS ^(‡)	^{‡)} 193	0	193	-	29	88	76	-																			
1 2021 MC ^(‡)	99	0	99	-	-	-	13	86																			
1 2021 NAVY (3	(‡) 3	0	3	-	-	-	-	3																			
1 2021 Total	1,058	616	442	88	88	88	89	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 2022 ARMY		0	290	-	-	-	-	-	54	54	54	54	54	20	-	-	-	-	-	-							
1 2022 FMS ^(‡)		0	359	-	-	-	-	-	-	-	-	-	-	34	54	54	54	54	54	55							
1 2022 MC ^(‡)		0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1							
1 2022 Total	650	0	650	-	-	-	-	-	54	54	54	54	54	54	54	54	54	54	54	56	-	-	-	-	-	-	-
				O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	U U	J U L	A U G	S E P

LI 0648CC0007 - Javelin (AAWS-M) System Summary Army

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P-1 Line #10

Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 30	0648CC0007 / Javelin (AAWS-M) System Summary	H06102 / JAVELIN (AAWS-M)

		Produc	ction Rates (Each	/ Year)				Procurement Lea	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref #	Manufacturer Name - Location	MSR For 2022	1-8-5 For 2022	MAX For 2022	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
	JJV All Up Round - Tucson AZ Orlando FL	850	3,960	6,480	4	7	23	30	6	3	29	32

Remarks:

FY20 OTH are Army Funded Reimbursable Authority (FRA) missiles. In FY20, Army was able to buy back 391 additional missiles using FRA funds generated by the prior sale of older missiles from existing US Army stockpile to FMS customers.

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

Contract currently caps production at 2,100 missiles annually.

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

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^(‡) 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.

Exhibit P-5, Cost Analysis: PB 2022 Army

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)

MDAP/MAIS Code:

ID Code (A=Service Ready, B=Not Service Ready) .			WIDAP/IWIAIS Code.			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-		. 5	86	-	86
Gross/Weapon System Cost (\$ in Millions)	-		15.970	44.194	-	44.194
Less PY Advance Procurement (\$ in Millions)	-		-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-		15.970	44.194	-	44.194
Plus CY Advance Procurement (\$ in Millions)	-		-	-	-	-
Total Obligation Authority (\$ in Millions)	-		- 15.970	44.194	-	44.194
(The following Resource Summary rows are for informa	tional purposes only. The co	rresponding budget requ	ests are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-		-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-		3,194.000	513.884	-	513.884

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

ID Code (A-Sanisa Boody B-Not Sanisa Boody):

	P	rior Years	3		FY 2020			FY 2021		F۱	′ 2022 Bas	e	FY	2022 OC	0	FY	2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
lyaway Cost				'			'	'		'						'	'	
Recurring Cost																		
Light Weight CLU Production ^(†)	-	-	-	-	-	-	442.600	5	2.213	350.698	86	30.160	-	-	-	350.698	86	30.1
Engineering Services	-	-	-	-	-	-	-	-	1.377	-	-	1.713	-	-	-	-	-	1.7
Acceptance Testing	-	-	-	-	-	-	-	-	0.400	-	-	0.529	-	-	-	-	-	0.5
Production Engineering	-	-	-	-	-	-	-	-	0.875	-	-	1.088	-	-	-	-	-	1.0
Fielding	-	-	-	-	-	-	-	-	0.173	-	-	1.059	-	-	-	-	-	1.0
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	5.038	-	-	34.549	-	-	-	-	-	34.5
Non Recurring Cost																		
Initial Production Facilitization	-	-	-	-	-	-	-	-	10.932	-	-	8.369	-	-	-	-	-	8.3
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	10.932	-	-	8.369	-	-	-	-	-	8.3
Subtotal: Flyaway Cost	-	-	-	-	-	-	-	-	15.970	-	-	42.918	-	-	-	-	-	42.9
Support - Program Managem	ent Cost						-											
Government Management	-	-	-	-	-	-	-	-	-	-	-	1.276	-	-	-	-	-	1.2
Subtotal: Support - Program Management Cost	-	-	-	-	-	-	-	-	-	-	-	1.276	-	-	-	-	-	1
iross/Weapon System	-	-	-	-	-	-	3,194.000	5	15.970	513.884	86	44.194	-	=	-	513.884	86	44.

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LI 0648CC0007 - Javelin (AAWS-M) System Summary Army

P-1 Line #10

Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
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:

Remarks:

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

Procurement funding reduction in FY21 & FY22 decreases FY21 quantity from 10 to 5 and FY22 quantity from 212 to 86.

Beginning in FY2022, 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).

Facilitization costs include cost to set up a new production line for Lightweight CLU builds. LW CLU initial LRIP of 5 units is planned for FY2021, with a ramp-up to a second LRIP of 86 units in FY2022 prior to reaching Full Rate Production (FRP) of ~300/year in FY2023. First Unit Equipped (FUE) is planned for 4QFY2024.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	5	86	-	86
	Total Obligation Authority	-	15.970	44.194	-	44.194
Total:	Quantity	-	5	86	-	86
Secondary Distribution	Total Obligation Authority	-	15.970	44.194	-	44.194

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 A	Army	Date: May 2021
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	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	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

^(†) 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

P-1 Line #10

Exh	ibit	P-21, Pr	oduct	ion Sc	hedu	le: PE	3 202	2 Arm	ıy														Date	e: Ma	y 202	1				
	_	riation / 02 / 30	Budg	et Acti	ivity /	Budg	get Su	ıb Ac	tivity	:		-		Num / Jave			-M) S	ystem	n Sum	ımary			H06	Num 103 / nch U	Javel	in Lig		DIC]: ght Co	omma	and
			lements in Each)								Fiscal Y	ear 2021											Fiscal Y	ear 2022						В
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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
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)

		Produc	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)			
MFR						lı	nitial			Reo	order	
Ref #	Manufacturer Name - Location	MSR For 2022	1-8-5 For 2022	MAX For 2022	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	780	3		9 24	33	1	1	22	

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

2104C59300 / TOW 2 System Summary

Assault Missile Sys

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	174,157	1,460	1,231	887	-	887	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3,630.112	127.907	123.474	104.412	-	104.412	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	207.598	19.949	10.500	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,422.514	107.958	112.974	104.412	-	104.412	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	227.547	10.500	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,650.061	118.458	112.974	104.412	-	104.412	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request:	s are documente	ed elsewhere.)			<u> </u>	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	20.844	87.608	100.304	117.714	-	117.714	-	-	-	-	-	-

Description:

Tube launched, Optically tracked, Wire - less 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 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.

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Secondary	/ Distribution	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	1,460	1,231	887	-	887	-	-	-	-
	Total Obligation Authority	118.458	112.974	104.412	-	104.412	-	-	-	-
Total:	Quantity	1,460	1,231	887	-	887	-	-	-	-
Secondary Distribution	Total Obligation Authority	118.458	112.974	104.412	-	104.412	-	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

2104C59300 / TOW 2 System Summary

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C59403 / TOW Family of Missiles	P-5a, P-21			174,157 / 3,630.112	1,460 / 127.907	1,231 / 123.474	887 / 104.412	- / -	887 / 104.412
P-40	Total Gross/Weapon System Cost				174,157 / 3,630.112	1,460 / 127.907	1,231 / 123.474	887 / 104.412	- 1 -	887 / 104.412

^{*}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:

FY22 funding in the amount of \$104.412 million procures 887 TOW 2B Aero missiles and provides combat inventory at levels required by the US Army's Total Munitions 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 TOW missiles and to mitigate safety and obsolescence issues.

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.

Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2032A / 02 / 30 C59403 / TOW Family of Missiles 2104C59300 / TOW 2 System Summary

MDAP/MAIS Code:

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	174,157	1,460	1,231	887	-	887
Gross/Weapon System Cost (\$ in Millions)	3,630.112	127.907	123.474	104.412	-	104.412
Less PY Advance Procurement (\$ in Millions)	207.598	19.949	10.500	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,422.514	107.958	112.974	104.412	-	104.412
Plus CY Advance Procurement (\$ in Millions)	227.547	10.500	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,650.061	118.458	112.974	104.412	-	104.412
(The following Resource Summary rows are for informat	ional purposes only. The cor	responding budget request	s are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	20.844	87.608	100.304	117.714	-	117.714

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

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

					FY 2020			FY 2021		FY	' 2022 Bas	se	F١	2022 OC	0	FY	2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost					,													
Recurring Cost																		
Missile Contract ^(†)	20.333	173,632	3,530.459	77.317	1,460	112.883	90.480	1,231	111.381	95.682	887	84.870	-	-	-	95.682	887	84.87
Engineering Services	-	-	-	-	-	-	-	-	-	-	-	3.432	-	-	-	-	-	3.43
Acceptance Testing	-	-	-	-	-	-	-	-	-	-	-	3.114	-	-	-	-	-	3.11
Subtotal: Recurring Cost	-	-	3,530.459	-	-	112.883	-	-	111.381	-	-	91.416	-	-	-	-	-	91.41
Non Recurring Cost		-													,			
Counter Active Protection System (CAPS) Obsolescence	-	-	-	-	-	-	-	-	2.375	-	-	6.076	-	-	-	-	-	6.07
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	2.375	-	-	6.076	-	-	-	-	-	6.07
Subtotal: Flyaway Cost	-	-	3,530.459	-	-	112.883	-	-	113.756	-	-	97.492	-	-	-	-	-	97.49
Support - Acceptance Testing	Cost																	
Acceptance Test	-	-	17.491	-	-	4.650	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	17.491	-	-	4.650	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Enginee	ering Cost																	
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	4.875	-	-	-	-	-	4.87
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-		-	-	-	4.875	-	-	-	-	-	4.87
Support - Program Managem	ent Cost																	
Government Management	-	-	53.040	-	-	7.595	-	-	6.224	-	-	2.045	-	-	-	-	-	2.04

LI 2104C59300 - TOW 2 System Summary Army

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P-1 Line #11

Exhibit P-5, Cost Analysis: PB 2022 Army Date: May 2021

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.

Note. Subtotals of Totals I	II IIIIS EXIIIDII	i -5 may no	or be exact o	JI Sulli Exacti	y due to rou	nuing.												
	F	Prior Years	S		FY 2020			FY 2021		F	Y 2022 Bas	se	F	1 2022 OC	0	F'	Y 2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Program Management Cost	-	-	53.040	-	-	7.595	-	-	6.224	-	-	2.045	-	-	-	-		2.045
Support - System Engineering	Cost																	
System Engineering	-	-	29.122	-	-	2.779	-	-	3.494	-	-	-	-	-	-	-	-	-
Subtotal: Support - System Engineering Cost	-	-	29.122	-	-	2.779	-	-	3.494	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	20.844	174,157	3,630.112	87.608	1,460	127.907	100.304	1,231	123.474	117.714	887	104.412	-	-	-	117.714	887	104.412

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

		,			,													
	P	rior Years	;		FY 2020	20 FY 2021			FY	2022 Ba	se	FY 2022 OCO			FY 2022 Total			
Cost Element Breakout	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Missile Contract	20.333	173,632	3,530.459	77.317	1,460	112.883	90.480	1,231	111.381	95.682	887	84.870	-	-	-	95.682	887	84.870
All configurations (FY 19 and prior)	20.333	173,632	3,530.459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2B Aero	-	-	-	89.695	960	86.107	114.778	731	83.903	95.682	887	84.870	-	-	-	95.682	887	84.870
Bunker Buster	-	-	-	53.552	500	26.776	54.956	500	27.478	-	-	-	-	-	-	-	-	-

Remarks:

The P-5 Cost Elements for FY22 were restructured and cost estimates were updated and realigned to improve tracking and reporting of actuals. This update also increases consistency in P-5 reporting across the Tactical Aviation and Ground Munitions portfolio.

- Support Element "System Engineering" is now under Recurring Cost and is labeled "Engineering Services"
- Support Element "Acceptance Test" is now under Recurring Cost
- Support Element "Government Management" was split into "Production Engineering" and "Government Management"; increase in funding facilitates mitigation of obsolescence and safety concerns to production missile variants.

FY22 funding in the amount of \$104.412 million procures 887 TOW 2B Aero missiles and provides combat inventory at levels required by the US Army's Total Munitions Requirement.

FY22 TOW 2B unit price estimate assumes additional customer procurement of missiles to reach Minimum Sustaining Rate.

FY22 procurement of \$6.076M procures CAPS hardware for component and system tests and conducts the component level qualification of the CAPS hardware.

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 to mitigate safety and obsolescence issues.

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Exhibit P-5, Cost Analysis: PB 2022 Army	Date: May 2021	
	m Number / Title: Item Number / Titl 0 / TOW 2 System Summary C59403 / TOW Far	

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

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.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	1,460	1,231	887	-	887
	Total Obligation Authority	118.458	112.974	104.412	-	104.412
Total:	Quantity	1,460	1,231	887	-	887
Secondary Distribution	Total Obligation Authority	118.458	112.974	104.412	=	104.412

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2022 A	Army	Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 30	2104C59300 / TOW 2 System Summary	C59403 / TOW Family of Missiles

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Revision	RFP Issue Date
Missile Contract ^(†)		2020	Raytheon / Tucson	SS / FPIF	AMCOM, Redstone Arsenal, AL	Mar 2020	Jul 2021	1,460	77.317	Y		
Missile Contract ^(†)		2021	Raytheon / Tucson	SS / FPIF	AMCOM, Redstone Arsenal, AL	Mar 2021	Jan 2023	1,231	90.480	Y		
Missile Contract ^(†)		2022	Raytheon / Tucson	SS / FPIF	AMCOM, Redstone Arsenal, AL	Jun 2022	Dec 2023	887	95.682	Y		Aug 2020

^(†) 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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Army

tion / Bud / 30 Cost Element (Units in Each) ERVICE PRO QTY	ACCEPT PRIOR TO 1 C OCT	BAL DUE AS OF	Budg	et Su	ıb Acı	tivity:			Line I 4C593		NI									Date	· · · · · · · · · · · · · · · · · · ·	,				
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C (‡) 40	63 0	463	-	-	-	-	-	-	198	240	25	-	-	-	-	-										
otal 2,6	28 0	2,628	-	-	189	240	240	218	198	240	240	215	215	213	210	210	-	-	-	-	-	-	-	-	-	-
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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
	P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary	Item Number / Title [DODIC]: C59403 / TOW Family of Missiles

						,	,				,	
MFR						Init	tial			Reo	rder	
Ref	Manufacturer				ALT	ALT	Manufacturing	Total	ALT	ALT	Manufacturing	Total
#	Name - Location	MSR For 2022	1-8-5 For 2022	MAX For 2022	Prior to Oct 1	After Oct 1	PLT	After Oct 1	Prior to Oct 1	After Oct 1	PLT	After Oct 1
1	Raytheon - Tucson	2,880	9,600	24,000	3	2	18	20	3	2	18	20

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.

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

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^(‡) 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.

Exhibit P-10, Advance Procurement	Requirements Analysis	s (page 1	- Budget Funding Justi	ification): PB 2022 Army	Date: May 2021	
Appropriation / Budget Activity / Bu 2032A / 02 / 30	dget Sub Activity:		Item Number / Title: 300 / TOW 2 System Su	mmary	P-5 Number / Title C59403 / TOW Far	
First System (2022) Award Date: March 2022	First System (2022) Comple July 2023	tion Date:		Interval Between Sy Months	vstems:	
TOW Family of Missiles	Production Le		Prior Years (Each)	FY 2020 (Each)	FY 2021 (Each)	FY 2022 (Each)
Quantity			174,157	1,460	1,231	887
Cost Elements	When Requ		Prior Years (\$ M)	FY 2020 (\$ M)	FY 2021 (\$ M)	FY 2022 (\$ M)
Other						
Warhead		14	102.284	6.923	-	-
Launch Motor		14	12.237	0.730	-	-
Flight Motor		12	3.457	0.138	-	-
2B Sensor		14	65.045	-	-	-
Gyro		13	20.480	1.249	-	-
Flight Motor Case Kit		10	4.644	0.283	-	-
Control Surface Actuator		14	12.119	0.739	-	-
Beacon Shutter Actuator		11	7.281	0.438	-	-
Total: Other			227.547	10.500	-	-
Total Advance Procurement/Obligation Author	ority		227.547	10.500	-	-

Exhibit P-10, Advance Procurement Requirements Analysis	(page 2 - Budget Funding Justification): PB 2022 Army	Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	P-5 Number / Title:
2032A / 02 / 30	2104C59300 / TOW 2 System Summary	C59403 / TOW Family of Missiles

				FY 2	2022		
Cost Elements	QPA (Each)	Production Leadtime (Months)	Unit Cost	Contract Forecast Date	2022 Qty (Each)	For FY	Total Cost Request (\$ M)
Other							
Warhead	1						-
Launch Motor	1						-
Flight Motor	1						-
2B Sensor	1						-
Gyro	1						-
Flight Motor Case Kit	1						-
Control Surface Actuator	1						-
Beacon Shutter Actuator	1						-
Total: Other							-
Total Advance Procurement/Obligation Authority							-

Description: FY22 Economic Order Quantity funding supports the TOW Contract.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

|P

P-1 Line Item Number / Title:

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

6005C64400 / Guided MLRS Rocket (GMLRS)

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0603778A, 0205778A

Line Item MDAP/MAIS Code: 260

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	42,238	7,878	5,502	5,886	-	5,886	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	5,342.163	1,136.794	912.997	935.917	-	935.917	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5,342.163	1,136.794	912.997	935.917	-	935.917	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,342.163	1,136.794	912.997	935.917	-	935.917	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request:	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	126.478	144.300	165.939	159.007	-	159.007	-	-	-	-	-	-

Description:

NOTE:

P-40 Quantity:

FY 2021: Actual quantity is 5,796.

FY 2022: P40 Quantity is correct vice the P1 5817 quantity.

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 Dual Purpose Improved Conventional Munition (DPICM) is a cluster munition that replaced the shorter range MLRS rockets to engage area or imprecisely located targets. GMLRS DPICM Production was terminated in response to the June 2008 Department of Defense (DoD) Cluster Munitions Policy. GMLRS Unitary 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 the same target sets as DPICM. 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 ER GMLRS will be considered for cut-in to the GMLRS production efforts as early as FY22. Range extension will allow GMLRS to reach targets formerly serviced by the more expensive Army Tactical Missile System (ATACMS).

Secondary	Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	7,878	5,502	5,886	-	5,886	-	-	-	-
	Total Obligation Authority	1,136.794	912.997	935.917	-	935.917	-	-	-	-
Total:	Quantity	7,878	5,502	5,886	-	5,886	-	-	-	-
Secondary Distribution	Total Obligation Authority	1,136.794	912.997	935.917	-	935.917	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6005C64400 / Guided MLRS Rocket (GMLRS)

Assault Missile Svs

Program Elements for Code B Items: N/A

Other Related Program Elements: 0603778A, 0205778A

Line Item MDAP/MAIS Code: 260

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

	Exhibits Schedule		,		Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C65404 / GUIDED MLRS ROCKET (GMLRS)	P-5a, P-21			42,238 / 5,338.646	7,878 / 1,136.794	5,502 / 912.501	5,886 / 935.428	- / -	5,886 / 935.428
P-5	C65406 / GMLRS Training Devices				- / 3.517	- / -	- / 0.496	- / 0.489	- / -	- / 0.489
P-40	Total Gross/Weapon System Cost				42,238 / 5,342.163	7,878 / 1,136.794	5,502 / 912.997	5,886 / 935.917	- 1 -	5,886 / 935.917

^{*}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 2022 Base procurement dollars in the amount of \$747.813 million support the procurement of 4,650 rockets. The FY 2022 Direct War procurement dollars in the amount of \$187.615 million support the procurement of 1,236 rockets. \$0.489 million of Base procurement dollars support the acquisition of equipment and support to ensure Guided Multiple Launch Rocket Common Training Device alignment with the production configuration. The actual missile buy quantities are subject to the mix between AW and Unitary warheads. Standard (regular range) versus Extended Range configurations, replacement pod cutin, and replacement pod/Extended Range ECP tooling capacity ramp-up. In FY 2022, Army guidance is to procure 600 Standard Unitary and 5,286 Standard Alternative Warhead (AW) 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. TMR quantities are evaluated and adjusted annually. As of May, 2020, the TMR showed requirements for Unitary of 18,423 and for AW of 66,289.

Since program inception, GMLRS has benefited from the availability of 30 year old M-26 pods that are repurposed for current GMLRS production. Due to dwindling supply of these pods, procurement of replacement pods must begin in FY 2022.

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 2022 Army

Date: May 2021

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 ROCK

6005C64400 / Guided MLRS Rocket (GMLRS)

C65404 / GUIDED MLRS ROCKET
(GMLRS)

P-1 Line #12

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

MDAP/MAIS Code:

The Code (A-Service Ready, B-Not Service Ready) .		IVID	AI /IVIAIO OOGE.			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	42,238	7,878	5,502	5,886	-	5,886
Gross/Weapon System Cost (\$ in Millions)	5,338.646	1,136.794	912.501	935.428	-	935.428
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5,338.646	1,136.794	912.501	935.428	-	935.428
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,338.646	1,136.794	912.501	935.428	-	935.428
(The following Resource Summary rows are for informa	ational purposes only. The cor	responding budget requests	are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	126 394	144 300	165 849	158 924	-	158 924

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

	P	rior Years	;		FY 2020			FY 2021		FY	/ 2022 Bas	e	FY	2022 OC	:0	FY	/ 2022 Tot	.al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost		'		'	,		'	'		'	'		'		'	'	'	
Recurring Cost																		
Tactical GMLRS Hardware ^(†)	112.081	42,238	4,734.076	139.725	7,878	1,100.753	148.543	5,796	860.955	150.431	5,886	885.434	-	-	-	150.431	5,886	885.4
Ind Maint/Init Prod Fac	-	-	116.721	-	-	4.950	-	-	20.000	-	-	17.665	-	-	-	-	-	17.6
Production Verification Testing	-	-	75.407	-		6.798	-	-	6.962	-	-	7.240	-	-	-	-	-	7.2
First Destination Transportation	-	-	6.392	-	-	1.106	-	-	0.838	-	-	0.869	-	-	-	-	-	0.8
Production Engineering Support	-	-	193.153	-	-	13.130	-	-	13.446	-	-	13.715	-	-	-	-	-	13.7
Spares	-	-	2.913	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	5,128.662	-	-	1,126.737	-	-	902.201	-	-	924.923	-	-	-	-	-	924.9
Subtotal: Flyaway Cost	-	-	5,128.662	-	-	1,126.737	-	-	902.201	-	-	924.923	-	-	-	-	-	924.9
Support - Engineering Change	e Proposals Co	st						*										
Engineering Change Proposals	-	-	114.747	-	-	6.150	-	-	6.298	-	-	6.424	-	-	-	-	-	6.4
Subtotal: Support - Engineering Change Proposals Cost	-	-	114.747	-		6.150	-	-	6.298	-	-	6.424	-	-	-	-	-	6.4
Support - Program Managem	ent Cost			,				*		,			,			,		
Government Management	-	-	95.238	-	-	3.907	-	-	4.001	-	-	4.081	-	-	-	-	-	4.0

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
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:

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

	F	rior Years	;		FY 2020			FY 2021		FY	/ 2022 Bas	se	FY	/ 2022 OC	0	FY	/ 2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Program Management Cost	-	-	95.238	-	-	3.907	-	-	4.001	-	-	4.081	-	-	-	-	-	4.081
Gross/Weapon System Cost	126.394	42,238	5,338.646	144.300	7,878	1,136.794	165.849	5,502	912.501	158.924	5,886	935.428	-	-	-	158.924	5,886	935.428

Remarks:

The Army fully transitioned to Insensitive Munitions Propulsion System Motors (IMPS) for all rockets in FY 2020. Procurement of tooling for Extended Range GMLRS and for manufacture of pods was previously scheduled for FY 2021, however, it has since become necessary to implement a Life Time Buy of Application-Specific Integrated Circuit (ASIC) chips in order to assure continuing supply of Guidance Sets. Due to this development, the Extended Range GMLRS tooling has been shifted into FY 2022. The cost to procure the ASIC chips is estimated to be \$60M and will enable production to continue through FY 2026, at which time a replacement shall become available.

FY 2022 is the first year that shall require the production of pods for the GMLRS program rather than making use of repurposed M26 pods that were freely available in past years. 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.

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.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	7,878	5,502	5,886	-	5,886
	Total Obligation Authority	1,136.794	912.501	935.428	-	935.428
	Quantity	7,878	5,502	5,886	-	5,886
Secondary Distribution	Total Obligation Authority	1,136.794	912.501	935.428	-	935.428

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 A	Army	Date: May 2021
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)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
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	5,796	148.543	N		May 2019
Tactical GMLRS Hardware ^(†)		2022	Lockheed Martin M.&F.C Sys. / Dallas, TX	SS / FPIF	Aviation and Missile Command	Mar 2022	Aug 2023	5,886	150.431	N		May 2019

^(†) indicates the presence of a P-21

Remarks:

Lockheed Martin is currently the industry source that is both facilitized and qualified to produce the GMLRS rocket. FY19 and FY20 annual production contracts are options on the FY18 base contract.

FY21 annual production is planned to be an Indefinite Delivery Indefinite Quantity (IDIQ) contract type.

FY22 annual production is planned to be a lot buy against the FY21 contract.

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^{*}Sole Source/Fixed Price Incentive Firm

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

۱q	pro	opri	P-21, Proint in the property of the property o							-	' :		Line 05C64						t (GM	ILRS)				Item C65		ber i	/ Title	DOD		KET	
				lements in Each)								Fiscal \	ear 2017	,										Fiscal Y	ear 2018						В
					ACCEPT									(Calenda	Year 20	17								Caler	dar Yea	r 2018				î
N O F C R	2	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	A N C
Tacti	ical (GMLF	RS Hardware																												
Prior	Yea	ars De	eliveries: 250	72																											
1	1 2	2017	ARMY	2,970	0	2,970								Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	252	252	252	2,
1	2	2017	FMS (‡)	60	0	60								Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	
1	1 2	2017	MC ^(‡)	336	0	336								Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	24	24	24	
1	1 2	2017	Total	3,366	0	3,366							_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	336	276	276	2,4
_	+	2018	ARMY	6,528	0	6,528							_		1										Α -	-	-	-	-	-	6,
1	1 2	2018	FMS (‡)	96	0	96																			Α -	-	-	-	-	-	
-	_		MC ^(‡)	372	0																				Α -	-	-	-	-		1 :
-	-		_	6,996	0																				-	_	_	-	-		6,9
-	_		ARMY	7,668	0																										7,6
1	1 2	2019	FMS (‡)	462	0	462																-									4
-	+		MC ^(‡)	222	0																										2
_	-		Total	8,352	0																										8,3
-	_		ARMY	7,878	0																										7,8
_	_	2021	ARMY	5,796	0			-							-																5,7
_	+	2021	FMS ^(‡)	2,142	0																										2,1
+	_	2021	MC (‡)	330	0	<u> </u>		-							_																3
		2021	Total	8,148	0																										8,1
_	_		ARMY	5,886	0			1																							5,8
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Ext	nib	it P	-21, Pro	oducti	on Sc	hedul	e: PB	2022	2 Arm	у														Date	: May	2021					
			ation / 1 2 / 30	Budge	t Acti	vity /	Budg	et Su	ıb Ac	tivity:		- 1	Line I 5C644					locket	t (GML	_RS)					Num 404 / (LRS)					KET	
				ements n Each)								Fiscal Ye	ar 2019										ļ	Fiscal Ye							E
N F F O #	2	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	year 201 J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	I
			S Hardware	Q.	2010	1.001	•							•				•	-	_						•				•	<u> </u>
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1	_		ARMY	2,970	756	2,214	246	246	246	246	246	246	246	246	246																
1	+		FMS (‡)	60	60	_	-	-	-	-	-	-	-	-	-																
+	+		MC ^(‡)	336	72		24	30	30	30	30	30	30	30	30																
-	+	_	Total	3,366	888		270	276	276	276	276	276	276	276	276	_	_	- 1		- 1	- 1	-	- 1	_ [- 1	- 1	- 1	- 1	_ [_	₩
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+	+	-	FMS (‡)	96	0		-	-	_	-	_	-	_	_	_	_	12	12	12	12	6	6	6	6	6	6	6	6			
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+	+	_	MC ^(‡)	372	0		-	-	-	-	-	-	-	-	-	-	36	36	30	30	30	30	30	30	30	30	30	30			₩
_	_	_	Total ARMY	6,996 7,668	0	- 1	-	-	-	-	-	- A -	-	-	-	-	594	594	588	588	582	582	582	582	576	576	576	576	642	642	6,3
-	_			-													-	-		-				-			-				-
-	+	2019	FMS (‡)	462	0							Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	36	-
_	-	_	MC ^(‡)	222	0							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	18	-
_	_		Total	8,352	0	-,						-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	696	696	-
_	_	_	ARMY	7,878	0	-																_		Α -	-	-	-	-	-	-	7,8
+	+		ARMY	5,796	0	-																-									5,7
_ 1	2	_	FMS ^(‡)	2,142	0	<u> </u>																									2,
_ 1	2	2021	MC ^(‡)	330	0	330																									3
-	-		Total	8,148	0	-, -																						-			8,1
1	2	2022	ARMY	5,886	0	5,886																									5,8
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	U L	A U G	S E P	

LI 6005C64400 - Guided MLRS Rocket (GMLRS) Army

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			ost Elemer Units in Eac		,							Fiscal Ye	ar 2021											Fiscal Ye	ar 2022			,			В
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Tacti	cal G	MLRS Ha	dware		,																										
Prior	Yea	rs Deliverie	s: 25072																												
1	20	017 ARM	′ 2,	970	2,970	0																									
1	20	017 FMS	‡)	60	60	0																									
1	20	017 MC ()	336	336	0																									
1	20	017 Total	3,	366	3,366	0	-	-	-	-	-	-	-	-	-	-	-	-	-	- [-	-	-	-	-	-	-	-	-	-	
1	20	018 ARM	r 6,	528	6,528	0													ļ.												
1	20	018 FMS	‡)	96	96	0																									
1	20	018 MC ()	372	372	0																									
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_	20			668	1,284	6,384	642	642	642	642	636	636	636	636	636	636			ļ												
1	20	019 FMS	‡)	462	66	396	36	36	36	36	42	42	42	42	42	42															
_	20			222	42	180	18	18	18	18	18	18	18	18	18	18															
_	_	019 Total		352	1,392	6,960	696	696	696	696	696	696	696	696	696	696	_	_		- 1		_	-	- 1	-	_	_	- 1	-	_	\vdash
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1	20	021 ARM	7 5,	796	0	5,796						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	486	486	4,8
1	20	021 FMS	^{‡)} 2,	142	0	2,142						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180	180	1,7
1	20			330	0	330						A -	-	_	-	-	_	-	-	-	-	_	-	-	_	_	_	-	30	30	2
_	20			148	0							_	-	_	-	-	_	-	-	-	-	-	-	-	-	_	_	-	696	696	_
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			-21, Pr							-																y 202					
			ation / 2 / 30	Budge	et Acti	vity /	Budg	et Su	ıb Ac	tivity	:		Line 5C64						t (GM	ILRS)				C65		GUID		E [DOE MLRS		KET	
				lements in Each)								Fiscal Y	ear 2023											Fiscal Y	ear 2024	ı					E
					ACCEPT									C	alendar	Year 202	23								Caler	ndar Year	2024				ĺ
0 F C R 0 #	1	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	1 A
Tacti	cal (GMLR:	S Hardware										,									1									
Prior	Yea	ars Del	liveries: 250	72																											_
1	2	2017	ARMY	2,970	2,970	0																									
1	2	2017	FMS (‡)	60	60	0																									
1	2	2017	MC ^(‡)	336	336	0																									
_	_	2017		3,366	3,366	0	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	+
_	_		ARMY	6,528	6,528	0									I.			1							I.	1	1		l .	1	
1	2	2018	FMS ^(‡)	96	96	0																									
_	_	_	MC ^(‡)	372	372	0																									
_	_	2018		6,996	6,996	0	- [-	_	- [-	_	-	-	-		_	-	_	-	-	- 1	-	-	-	T -	-		_	_	+
_	+-	_	ARMY	7,668	7,668	0	!			l																					\vdash
_	+	_	FMS (‡)	462	462	0																									
_	+		MC ^(‡)	222	222	0																									
_	_	2019		8,352	8,352	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T -	-		_	-	+
_	+-	_	ARMY	7,878	7,878	0																									
_	_		ARMY	5,796	972		486	486	486	486	480	456	456	456	456	456]														
1	2	2021	FMS ^(‡)	2,142	360	1,782	180	180	180	180	180	180	180	174	174	174	1														
1	2	_	MC ^(‡)	330	60	270	30	30	30	30	30	24	24	24	24	24															
_	+		Total	8,148	1,392	$\overline{}$	696	696		696	690		660	654	654	654	_	_	_	_	_		-	_	_	Ι.	_	-	-	_	\vdash
_			ARMY	5,886	0	-	-	-	-	-	-	-	-	-	-	-	1,476	-	-	1,470	_	-	1,470	_	-	1,470					
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							С	0	E	Α	E B	A R	P R	A Y	U N	U L	U G	E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U	U G	E P	

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Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS)

		Produc	ction Rates (Each	/ Year)				Procurement Lea	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref #	Manufacturer Name - Location	MSR For 2022	1-8-5 For 2022	MAX For 2022	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
	Lockheed Martin M.&F.C Sys Dallas, TX	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.

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

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^(‡) 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.

	nalysis:	PB 2022 Arn	у										Date: N	1ay 2021			
Appropriation / Bud 2032A / 02 / 30	dget Act	ivity / Budge	t Sub Act	ivity:			n Numbe / Guided			SMLRS)			umber / T 6 / GMLR			s
ID Code (A=Service Ready, B	B=Not Service	Ready):						М	DAP/MAIS	Code:		-					
Res	source S	Summary			Prior Ye	ars	FY 20	20	FY	2021	FY 2	2022 Bas	se F	Y 2022 C	СО	FY 2022	Total
Procurement Quantity (Units in	n Each)					-		-			-		-		-		-
Gross/Weapon System Cost ((\$ in Millions)					3.517		-		0.	496	(0.489		-		0.489
Less PY Advance Procuremer	ent (\$ in Millior	ns)				-		-			-		-		-		-
Net Procurement (P-1) (\$ in Mil	fillions)					3.517		-		0.	496	(0.489		-		0.489
Plus CY Advance Procuremer	ent (\$ in Million	rs)				-		-			-		-		-		-
Total Obligation Authority (\$	(\$ in Millions)					3.517		-		0.	496	(0.489		-		0.489
(The fo	following Re	source Summary r	ws are for info	ormational p	urposes onl	y. The corres	sponding bud	get request	s are docume	ented else	where.)						
Initial Spares (\$ in Millions)						-		-			-		-		-		-
Gross/Weapon System Unit C	Cost (\$ in Tho	usands)				-		-			-		-		-		-
Note: Subtotals or Totals in thi	nis Exhibit P	-5 may not be exac	or sum exact	ly due to rou	ındina									"			
Total of Total in the		or Years	Or Sum Skast	FY 2020	inding.		FY 2021		FY	/ 2022 B	ase	F`	Y 2022 O	co	F	Y 2022 Tota	al
	nit Cost	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	(\$ 11)	(Lacii) (\$ ivi)	(\$10)	(Lacii)	(\$ 101)	(\$10)	(Lacii)	(φ ινι)	(\$11)	(Lacii)	(\$ 101)	(\$ 10)	(Lacii)	(\$ 101)	(\$ 10)	(Lacii)	(\$ IVI)
Recurring Cost																	
GMLRS TRAINING DEVICES	-	- 3.5	7 -	-	-	-	-	0.496	-	-	0.489	-	-	-	-	-	0.489
Subtotal: Recurring Cost	-	- 3.5	7 -	-	-	-	-	0.496	-	-	0.489	-	-	-	-	-	0.489
Subtotal: Flyaway Cost	-	- 3.5	7 -	-	-	-	-	0.496	-	-	0.489	-	-	-	-	-	0.489
Gross/Weapon System Cost	-	- 3.5	7 -	-	-	-	-	0.496	-	-	0.489	-	-	-	-	-	0.489
	Secon	dary Distribution	n			FV	2020		FY 2021		FY 2			FY 2022 OCO		FY 202 Total	
Army	000011	Quantity	••			• • •		_	1 1 2021	_	- Dui	-			-	10141	
· -···,		Total Obligation	Authority					-		0.496		0.48	9		-		0.489
Total:		Quantity						-		-		-			-		-
Secondary Distribution		Total Obligation	n Authority					-		0.496		0.48	9		-		0.489

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6060C65405 / MLRS Reduced Range Practice Rockets (RRPR)

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210602A

Line Item MDAP/MAIS Code: N/A

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	50,199	2,982	3,330	3,048	-	3,048	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	303.328	27.555	30.836	29.574	-	29.574	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	303.328	27.555	30.836	29.574	-	29.574	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	303.328	27.555	30.836	29.574	-	29.574	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	budget requests	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	6.043	9.240	9.260	9.703	-	9.703	-	-	-	-	-	-

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.

				FY 2022	FY 2022	FY 2022				
Secondar	ry Distribution	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	2,088	2,334	2,034	-	2,034	-	-	-	-
	Total Obligation Authority	19.294	21.504	19.772	-	19.772	-	-	-	-
ANG	Quantity	894	996	1,014	-	1,014	-	-	-	-
	Total Obligation Authority	8.261	9.332	9.802	-	9.802	-	-	-	-
Total:	Quantity	2,982	3,330	3,048	-	3,048	-	-	-	-
Secondary Distribution	Total Obligation Authority	27.555	30.836	29.574	-	29.574	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6060C65405 / MLRS Reduced Range Practice Rockets (RRPR)

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210602A

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C65405 / MLRS Reduced Range Practice Rockets (RRPR)	P-5a, P-21			50,199 / 303.328	2,982 / 27.555	3,330 / 30.836	3,048 / 29.574	- / -	3,048 / 29.574
P-40	Total Gross/Weapon System Cost				50,199 / 303.328	2,982 / 27.555	3,330 / 30.836	3,048 / 29.574	- 1 -	3,048 / 29.574

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

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

Justification:

FY2022 Base procurement dollars in the amount of \$29.574 million support the procurement of 3,048 LCRRPRs which are required to maintain the practice rocket inventory for Standards in Training Commission (STRC) requirements.

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

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Exhibit P-5, Cost Analysis: PB 2022 Army

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

P-1 Line Item Number / Title:
6060C65405 / MLRS Reduced Range Practice Rockets
(RRPR)

Item Number / Title [DODIC]:
C65405 / MLRS Reduced Range
Practice Rockets (RRPR)

ID Code (A=Service Ready, B=Not Service Ready):		М	OAP/MAIS Code:			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	50,199	2,982	3,330	3,048	-	3,048
Gross/Weapon System Cost (\$ in Millions)	303.328	27.555	30.836	29.574	-	29.574
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	303.328	27.555	30.836	29.574	-	29.574
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	303.328	27.555	30.836	29.574	-	29.574
(The following Resource Summary rows are for information	onal purposes only. The cort	responding budget request	s are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	6.043	9.240	9.260	9.703	-	9.703

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

	P	rior Years	;		FY 2020			FY 2021		FY	' 2022 Bas	e	FY	′ 2022 OC	0	F۱	/ 2022 Tot	.al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Flyaway Cost	'	'		'	,			'					'			'	'	
Recurring Cost																		
Reduced Range Practice Rocket (LCRRPR) ^(†)	4.659	50,199	233.869	7.481	2,982	22.307	7.737	3,252	25.162	7.879	3,048	24.015	-	-	-	7.879	3,048	24.0
Warheads Govt Furnished Equip (GFE)	-	-	26.598	-	-	2.638	-	-	2.947	-	-	2.817	-	-	-	-	-	2.8
Production Verification Testing	-	-	3.795	-	-	0.077	-	-	0.079	-	-	0.081	-	-	-	-	-	0.0
First Destination Transportation	-	-	1.520	-	-	0.200	-	-	0.221	-	-	0.213	-	-	-	-	-	0.2
Production Engineering Support	-	-	19.166	-		1.731	-	-	1.811	-	-	1.820	-	-	-	-	-	1.8
Subtotal: Recurring Cost	- [-	284.948	-	-	26.953	-	-	30.220	-	-	28.946	-	-	-	-	-	28.
Subtotal: Flyaway Cost	-	-	284.948	-	-	26.953	-	-	30.220	-	-	28.946	-	-	-	-	-	28.9
Support - Production Enginee	ering Cost																	
Production Engineering	-	-	6.774	-	-	0.510	-	-	0.522	-	-	0.532	-	-	-	-	-	0.
Subtotal: Support - Production Engineering Cost	-	-	6.774	-	-	0.510	-	-	0.522	-	-	0.532	-	-	-	-	-	0.
Support - Program Managem	ent Cost	,				,		,			· ·		'				'	
Government Management	-	-	11.607	-	-	0.092	-	-	0.094	-	-	0.096	-	-	-	-	-	0.0

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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.

	F	Prior Years	3		FY 2020			FY 2021		FY	/ 2022 Bas	se	F	Y 2022 OC	0	FY	1 2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
Subtotal: Support - Program Management Cost	-	-	11.607	-	-	0.092	-	-	0.094	-	-	0.096	-	-	-	-	-	0.096
Gross/Weapon System Cost	6.043	50,199	303.328	9.240	2,982	27.555	9.260	3,330	30.836	9.703	3,048	29.574	-	-	-	9.703	3,048	29.574

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	2,088	2,334	2,034	-	2,034
	Total Obligation Authority	19.294	21.504	19.772	-	19.772
ANG	Quantity	894	996	1,014	-	1,014
	Total Obligation Authority	8.261	9.332	9.802	-	9.802
Total:	Quantity	2,982	3,330	3,048	=	3,048
Secondary Distribution	Total Obligation Authority	27.555	30.836	29.574	-	29.574

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army

Appropriation / Budget Activity / Budget Sub Activity:

2032A / 02 / 30

P-1 Line Item Number / Title:
6060C65405 / MLRS Reduced Range Practice Rockets
(RRPR)

Ptune Item Number / Title [DODIC]:
C65405 / MLRS Reduced Range
Practice Rockets (RRPR)

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
	-	FI	Contractor and Location	runding venicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	NOW?	Available	Date
Reduced Range Practice Rocket (LCRRPR) ^(†)		2017	Lockheed Martin / Dallas, TX	SS / FPIF	AMCOM,RSA,AL	May 2017	Jul 2018	1,362	8.660	Y		Feb 2016
Reduced Range Practice Rocket (LCRRPR) ^(†)		2017	Letterkenny Munitions Center / Chambersburg, PA	MIPR	LEMC, PA	Mar 2018	Apr 2018	342	5.850	Υ		
Reduced Range Practice Rocket (LCRRPR) ^(†)		2018	Lockheed Martin / Dallas, TX	SS / FPIF	AMCOM,RSA,AL	Apr 2018	Aug 2019	3,078	8.770	Υ		Feb 2017
Reduced Range Practice Rocket (LCRRPR) ^(†)		2018	Letterkenny Munitions Center / Chambersburg, PA	MIPR	LEMC, PA	Mar 2019	Apr 2019	342	5.920	Υ		
Reduced Range Practice Rocket (LCRRPR) ^(†)		2019	Lockheed Martin / Dallas, TX	SS / FPIF	AMCOM,RSA,AL	Mar 2019	Aug 2020	1,542	8.900	Y		Feb 2018
Reduced Range Practice Rocket (LCRRPR) ^(†)		2019	Letterkenny Munitions Center / Chambersburg, PA	MIPR	LEMC, PA	Feb 2019	Apr 2020	672	6.040	Y		
Reduced Range Practice Rocket (LCRRPR) ^(†)		2020	Lockheed Martin / Dallas, TX	SS / FPIF	AMCOM,RSA,AL	Mar 2020	Aug 2021	1,446	9.080	Υ		Feb 2019
Reduced Range Practice Rocket (LCRRPR) ^(†)		2020	Letterkenny Munitions Center / Chambersburg, PA	MIPR	LEMC, PA	Mar 2020	Apr 2021	1,536	6.160	Υ		
Reduced Range Practice Rocket (LCRRPR) ^(†)		2021	Lockheed Martin / Dallas, TX	SS / FPIF	AMCOM, RSA, AL	Mar 2021	Aug 2022	2,910	9.260	Υ		Feb 2020
Reduced Range Practice Rocket (LCRRPR) ^(†)		2021	Letterkenny Munitions Center / Chambersburg, PA	MIPR	LEMC, PA	Mar 2021	Apr 2022	342	6.280	Υ		
Reduced Range Practice Rocket (LCRRPR) ^(†)		2022	Lockheed Martin / Dallas, TX	SS / IDIQ	AMCOM, RSA, AL	Mar 2022	Aug 2023	2,706	0.000	Υ		Feb 2020
Reduced Range Practice Rocket (LCRRPR) ^(†)		2022	Letterkenny Munitions Center / Chambersburg, PA	MIPR	LEMC, PA	Mar 2022	Apr 2023	342	0.000	Y		

^(†) indicates the presence of a P-21

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

^{*} SS (Sole Source) / FPIF (Fixed Price Incentive Firm)

^{**} AMCOM (Aviation and Missile Command), RSA (Redstone Arsenal), AL

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1	2017	Total	2,010	501	1,509	168	168	168	168	168	168	167	167	167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	2017	ARMY	342	172	170	29	29	28	28	28	28		,	,	,	,	,	,	· ·			,		,						
1	2018	ARMY	3,078	0	3,078	-	-	-	-	-	-	-	-	-	-	256	256	256	257	257	257	257	257	257	256	256	256			
1	2018	MC ^(‡)	648	0	648	-	-	-	-	-	-	-	-	-	-	54	54	54	54	54	54	54	54	54	54	54	54			
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2	2018		342	0	342						Α -	28	28	28	29	29	29	29	29	29	28	28	28							
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				Elements in Each)								Fiscal Ye	ar 2021											Fiscal Ye	ar 2022						В
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	1 2		ARMY	3,078	3,078	0																									
	1 2	018	MC ^(‡)	648	648	0																									
	1 2	018	Total	3,726	3,726	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2 2	018	ARMY	342	342	0																									
	1 2	019	ARMY	1,542	258	1,284	129	129	129	128	128	128	128	128	128	129															
	1 2	019	MC ^(‡)	648	216	432	54	54	54	54	54	54	54	54	-	-															
	_	_	Total	2,190	474	· ·	183	183	183	182	182	182	182	182	128	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2 2	_	ARMY	672	336		56	56	56	56	56	56			1			1	1		-						1				
\vdash		_	ARMY	1,446	0		-	-	-	-	-	-	-	-	-	-	120	121	121	121	121	121	121	120	120	120	120	120			
	_	_	MC ^(‡)	648	0		-	-	-	-	-	-	-	54	54	54	54	54	54	54	54	54	54	54	54	-	-	-			
		_	Total	2,094	0	,	-	-	-	-	-	-	-	54	54	54	174	175	175	175	175	175	175	174	174	120	120	120	-	-	<u> </u>
\vdash	_		ARMY	1,536 2,910	0	<u> </u>	-	-	-	-	-	- A -	128	128	128	128	128	128	128	128	128	128	128	128	- [_	_		240	246	2,4
\vdash	2 2		ARMY	342	0	_						A -	-		-	-	-	-	-	-	-	-	-	-	30	30	24	- 30	30	30	-
\vdash	_	_	ARMY	2,706	0	-						71 -		-	_	-	-	-	-	-	-	-		A -	-	-	-	-	-	-	2,70
\vdash	_	_	ARMY	342	0	,																		A -	-	-	-	-	-	-	34
-	_		MC ^(‡)	792	0																			Α -	-	-	-	-	-	-	79
-	_	022		1,134	0																			-	-	-	-	-	-	-	1,13
Г				<u> </u>		, .	O C T	N O V	D E C	J A N	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	

LI 6060C65405 - MLRS Reduced Range Practice Rockets (RRP... Army

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:xh	ibit F	P-21, Pro	duction	on Scl	hedul	e: PB	2022	2 Arm	у														Date	: May	y 202	1			
		iation / I 02 / 30	Budge	t Activ	vity /	Budg	et Su	ıb Ac	tivity	:	606	Line 0C65 ⁴ (PR)					Rang	e Pra	ctice	Rock	ets		C654	405 <i>I</i>	nber / MLRS Rocke	S Rec	[DOD luced RPR)	IC]: Rang	e
		Cost El (Units i	n Each)								Fiscal Ye	ear 2023									_		Fiscal Ye						
М				ACCEPT PRIOR	BAL								C	alendar `	Year 202	3						-	1	Calen	dar Year	2024			
) F C R	FY	SERVICE	PROC QTY	TO 1 OCT 2022	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
		ge Practice Ro				1						1					1												
_		eliveries: 4286																											
1	2017	ARMY	1,362	1,362	0																								
1	2017	MC (‡)	648	648	0																								
+	2017	Total	2,010	2,010	0	-	- 1	- 1	-	-	- 1	-	- 1	- 1	-	-	-	- 1	- 1	- 1	- 1	-	-	-	- 1	_	-	-	_
-	2017	ARMY	342	342	0																								
1	2018	ARMY	3,078	3,078	0																								
1	2018	MC ^(‡)	648	648	0																								
+-	2018	-	3,726	3,726	0	- [-	-	-	-	_	-	-	-	-	-	-	- 1	-	- 1	-	-	-	-	-	-	-	-	-
2	2018	ARMY	342	342	0		l					-																	
1	2019	ARMY	1,542	1,542	0																								
1	2019	MC ^(‡)	648	648	0																								
1	2019	Total	2,190	2,190	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	2019	ARMY	672	672	0													,											
1	2020	ARMY	1,446	1,446	0																								
1	2020	MC ^(‡)	648	648	0																								
1	2020	Total	2,094	2,094	0	-	-	-	-	-	-	-	-	-	-	-	-	-	- [-	-	-	-	-	-	-	-	-	-
2	2020	ARMY	1,536	1,536	0																								
1	2021	ARMY	2,910	486	2,424	240	246	240	246	240	246	240	246	240	240														
2	2021	ARMY	342	174	168	24	30	30	24	30	30																		
_	2022	ARMY	2,706	0		-	-	-	-	-	-	-	-	-	-	228	228	222	228	222	228	222	228	222	228	222	228		
2	2022	ARMY	342	0	342	-	-	-	-	-	-	30	30	24	30	30	30	24	30	30	24	30	30						
2	2022	MC ^(‡)	792	0	792	-	-	-	-	-	-	66	66	66	66	66	66	66	66	66	66	66	66						
2	2022	Total	1,134	0	1,134	-	-	-	-	-	-	96	96	90	96	96	96	90	96	96	90	96	96	-	-	-	-	-	-
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	n 1	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

LI 6060C65405 - MLRS Reduced Range Practice Rockets (RRP... Army

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	P-1 Line Item Number / Title: 6060C65405 / MLRS Reduced Range Practice Rockets	Item Number / Title [DODIC]: C65405 / MLRS Reduced Range
2002A7 02 7 30	(RRPR)	Practice Rockets (RRPR)

		Produc	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)			
MF	R					lni	tial			Reo	rder	
Re #	1	MSR For 2022	1-8-5 For 2022	MAX For 2022	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
	1 Lockheed Martin - Dallas, TX	504	3,072	4,200	0	4	16	20	0	4	16	20
	Letterkenny Munitions Center - Chambersburg, PA	504	1,500	1,968	0	2	12	14	0	4	12	16

Remarks:

Continued production of LCRRPRs at Camden, Arkansas mitigates shared production costs with GMLRS and Army Tactical Missile System (ATACMS). Relocation of LCRRPR production to M33 results in LCRRPR no longer sharing a production line with GMLRS.

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

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^(‡) 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.

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6200C02901 / High Mobility Artillery Rocket System (HIMARS)

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210608A, 0603778A

Line Item MDAP/MAIS Code: 367

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	416	0	6	19	-	19	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,031.716	-	46.276	128.438	-	128.438	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,031.716	-	46.276	128.438	-	128.438	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,031.716	-	46.276	128.438	-	128.438	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	e corresponding	budget requests	s are documente	ed elsewhere.)	!			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	4,883.933	-	7,712.667	6,759.895	-	6,759.895	-	-	-	-	-	-

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 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-Unitary (GMLRS-U), GMLRS Alternative Warhead, the Army Tactical Missile System (ATACMS) and future MFOM to include the Extended Range (ER) GMLRS, and the Precision Strike Missile (PrSM). In FY2017, the Army directed the program office to produce additional HIMARS launchers in an effort called HIMARS Fleet Expansion.

The Army currently has 363 HIMARS launchers on hand and is increasing the Army Acquisition Objective to 547 to support the Army Structure Memorandum 2022-2026 decision.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	6	19	-	19	-	-	-	-
	Total Obligation Authority	-	46.276	128.438	-	128.438	-	-	-	-
Total:	Quantity	-	6	19	-	19	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	46.276	128.438	-	128.438	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6200C02901 / High Mobility Artillery Rocket System (HIMARS)

Assault Missile Svs

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210608A, 0603778A

Line Item MDAP/MAIS Code: 367

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

	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C03000 / HIMARS LAUNCHER	P-5a, P-21			416 / 2,031.716	0 / -	6 / 46.276	19 / 128.438	- / -	19 / 128.438
P-40	Total Gross/Weapon System Cost	-			416 / 2,031.716	0/-	6 / 46.276	19 / 128.438	- 1 -	19 / 128.438

^{*}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:

FY2022 procurement dollars support \$128.438M Base, \$0.000M Direct War, and \$0.000M Enduring costs.

FY2022 Base procurement dollars in the amount of \$128.438 million procures 19 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.

The FY2021 and FY2022 flyaway cost for the HIMARS launchers have been revised to include costs for Prime Mission Equipment (Launcher), Contractor System Engineering/Program Management, and System Test & Evaluation. In the PB21 P-Form submission, the FY2021 flyaway cost for HIMARS launchers only included costs for the Prime Mission Equipment (Launcher), thus the PB21 P-Form FY2021 flyaway cost was understated, resulting in an understated unit cost. This FY2021 and FY2022 change has been made to more accurately reflect the flyaway cost of a HIMARS launcher.

In FY2021, the Army requested the transfer of \$10M from OMA line 121 to MIPA to procure one National Advanced Surface to Air Missile System (NASAMS) launcher. The \$10M of Missile Procurement, Army (MIPA) funding was included on the existing HIMARS line in the FY21 Appropriation. The Army Budget Office (ABO) established a new budget line (Cruise Missiles, SSN C21600), and the \$10M NASAMS funds will be reprogrammed for execution into the new line during the second quarter of FY21. Currently, the inclusion of \$10M NASAMS funding skews the Gross Weapon System Unit Cost for the HIMARS launcher. This unit cost will correct once the \$10M is reprogrammed from the HIMARS budget line.

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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UNCLASSIFIED Exhibit P-5, Cost Analysis: PB 2022 Army **Date:** May 2021 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 2032A / 02 / 30 6200C02901 / High Mobility Artillery Rocket System (HIMARS) C03000 / HIMARS LAUNCHER ID Code (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code: **Prior Years** FY 2020 FY 2021 FY 2022 Base **FY 2022 OCO** FY 2022 Total Resource Summary Procurement Quantity (Units in Each) 416 0 6 19 19 Gross/Weapon System Cost (\$ in Millions) 2,031.716 46.276 128.438 128.438 Less PY Advance Procurement (\$ in Millions) Net Procurement (P-1) (\$ in Millions) 2,031.716 46.276 128.438 128.438 Plus CY Advance Procurement (\$ in Millions) _ _ Total Obligation Authority (\$ in Millions) 2.031.716 46.276 128.438 128,438 (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 7,712.667 6,759.895 6,759.895 Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. **Prior Years** FY 2020 FY 2021 **FY 2022 Base FY 2022 OCO** FY 2022 Total Total Total Total Total Total Total **Unit Cost Unit Cost** Qty **Unit Cost** Qty **Unit Cost** Qty **Unit Cost** Qty **Unit Cost** Qty Qty Cost Cost Cost Cost Cost Cost Cost Elements (Each) (\$ M) (Each) (Each) (Each) (Each) (Each) (\$ M) (\$ K) (\$ K) (\$ M) (\$ K) (\$ M) (\$ K) (\$ M) (\$ K) (\$ M) (\$ K) Flyaway Cost Recurring Cost 3,142.197 5,430.250 Launcher^(†) 416 1,307.154 21.721 5,538.895 19 105.239 5,538.895 19 105.239 8.494.792 24 203.875 Carrier --------Subtotal: Recurring Cost 1,511.029 21.721 105.239 105.239 Non Recurring Cost Furopean Deterrence Initiative 74.400 Production Restart - Obsolescence Mitigation Subtotal: Non Recurring 74.400 Cost Subtotal: Flyaway Cost 1,585.429 21.721 105.239 105.239 _ Vehicles Cost Non Recurring Cost National Advanced Surface to Air Missile 10.000 System (NASAMS) Subtotal: Non Recurring 10.000 Cost Subtotal: Vehicles Cost 10.000 Support - Fielding Cost Fieldina 75.528 2.659 5.729 -5.729

LI 6200C02901 - High Mobility Artillery Rocket System (H... Army

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Exhibit P-5, Cost Analysis: PB 2022 Army

Date: May 2021

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

P-1 Line Item Number / Title:
6200C02901 / High Mobility Artillery Rocket System (HIMARS)

C03000 / HIMARS LAUNCHER

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

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

	P	rior Years	•		FY 2020			FY 2021		FY	1 2022 Ba	se	FY	2022 OC	0	FY	2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Fielding Cost	-	-	75.528	-	-	-	-	-	2.659	-	-	5.729	-	-	-	-	-	5.72
Support - Operational/Site Act	tivation Cost																	
System Assembly, Installation and Checkout on Site	-	-	28.410	-	-	-	-	-	-		-	-	-	-	-	-	-	-
Subtotal: Support - Operational/Site Activation Cost	-	-	28.410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Peculiar Support Ed	uipment Cost																	
Support and Handling Equipment	-	-	39.307	-	-	-	-	-	1.992		-	2.826	-	-	-	-	-	2.826
Subtotal: Support - Peculiar Support Equipment Cost	-	-	39.307	-	-	-	-	-	1.992		-	2.826	-	-	-	-	-	2.82
Support - Production Enginee	ring Cost																	
Production Engineering	-	-	114.656	-	-	-	-	-	6.666	-	-	10.131	-	-	-	-	-	10.13
Subtotal: Support - Production Engineering Cost	-	-	114.656	-	-	-	-	-	6.666	-	-	10.131	-	-	-	-	-	10.13
Support - Program Manageme	ent Cost																	
Government Management	-	-	23.611	-	-	-	-	-	3.238	-	-	3.303	-	-	-	-	-	3.303
Subtotal: Support - Program Management Cost	-	-	23.611	-	-	-	-	-	3.238	-	-	3.303	-	-	-	-	-	3.30
Support - System Engineering	Cost																	
System Engineering	-	-	130.846	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - System Engineering Cost	-	-	130.846	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Test and Ev	aluation Cost																	
Test and Evaluation Support	-	-	33.929	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - System Test and Evaluation Cost	-	-	33.929	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-
Support - Training Cost																		
Services	-	-	-	-	-	-	-	-	-	-	-	1.210	-	-	-	-	-	1.210
Subtotal: Support - Training Cost	-	-	-	-	-	-	-	-	-	-	-	1.210	-	-	-	-	-	1.21
Gross/Weapon System Cost	4,883.933	416	2,031.716	-	0	-	7,712.667	6	46.276	6,759.895	19	128.438	-	-	-	6,759.895	19	128.438

LI 6200C02901 - High Mobility Artillery Rocket System (H... Army

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Exhibit P-5, Cost Analysis: PB 2022 Army		Date: May 2021
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]:

ID Code (A=Service Ready, B=Not Service Read	dy):		MDAP/MAIS Code) :		
Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	6	19	-	19
	Total Obligation Authority	-	46.276	128.438	-	128.438
Total:	Quantity	0	6	19	-	19
Secondary Distribution	Total Obligation Authority	-	46.276	128.438	-	128.438

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 A	Army	Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 30	6200C02901 / High Mobility Artillery Rocket System (HIMARS)	C03000 / HIMARS LAUNCHER

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Revision	RFP Issue Date
Launcher ^(†)		2019	Lockheed Martin M. F. C. Sys / Dallas Texas	SS / FPIF	Aviation & Missile Command	Jul 2019	Oct 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	Jul 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	Jun 2024	19	5,538.895	N		Jan 2021

^(†) indicates the presence of a P-21

Cost Ele (Units in	ements Each) A F	CCEPT	vity /	Budg	et Sı	ıb Ac	tivity	:	hibit P-21, Production Schedule: PB 2022 Army propriation / Budget Activity / Budget Sub Activity: 32A / 02 / 30 P-1 Line Item Number / 6200C02901 / High Mob													e. ivia	y 202	1	_			
(Units in	PROC	CCEPT		2A / 02 / 30 Cost Elements (Units in Each)												Rock	cet Sy	/stem	(HIM)	ARS)					DOI AUN			
SERVICE	PROC	ACCEPT PRIOR BAL							Fiscal Y	ear 2019											Fiscal Y	ear 2020						
SERVICE	PROC	TO 1 DUE O N D J										Calendar	Year 201	19				1				Cale	ndar Yea	r 2020				
	QTY	TO 1 OCT 2018	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U J	n T	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U L	A U G	S E P	
			1	,											ı													
reries: 399													1			,	,	r			r	1	1		1	,		,
RMY	17	0	17									_	Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MS ^(‡)	38	0	38										Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1C ^(‡)														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
otal RMY							-					_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
																												\vdash
																												-
otal																												
RMY	19	0	19																									
1	,			0	N	D	J			_																		
ot R M	(‡) (al MY S (‡) (t)	(t) 10 al 65 MY 4 S (t) 29 (t) 5 al 38	10 0 0 al 65 0 MY 4 0 S (‡) 29 0 0 (±) (‡) 5 0 al 38 0	(t) 10 0 10 al 65 0 65 MY 4 0 4 S (t) 29 0 29 (t) 5 0 5 al 38 0 38	10 0 10 al 65 0 65 MY 4 0 4 S (‡) 29 0 29 (‡) 5 0 5 al 38 MY 19 0 19	10 0 10 10 al 65 0 65 MY 4 0 4 S (‡) 29 0 29 (‡) 5 0 5 al 38 MY 19 0 19	10 0 10 al 65 0 65 MY 4 0 4 S ^(‡) 29 0 29 (‡) 5 0 5 al 38 0 38 MY 19 0 19	10 0 10 al 65 0 65 MY 4 0 4 S (‡) 29 0 29 (‡) 5 0 5 al 38 0 38	10 0 10 al 65 0 65 MY 4 0 4 S (‡) 29 0 29 (‡) 5 0 5 al 38 0 38	10 0 10 al 65 0 65 MY 4 0 4 S (‡) 29 0 29 (‡) 5 0 5 al 38 0 38	A C C C C C C C C C C C C C C C C C C C	A C C C C C C C C C C C C C C C C C C C	A C C C C C C C C C C C C C C C C C C C	A - A - A - A - A - A - A - A - A - A -	A	A	(t) 10 0 10 A A - A A - A - A - A	(t) 10 0 10 A A - A A - A	(t) 10 0 10 A A A - A A A A A A A A	(t) 10 0 10 A A A - A A A A A A	(t) 10 0 10 A A A - A A A A	(t) 10 0 10 A A A A A	A	A	A	A	A	A -

xh	ibi	t P-21, Pı	oducti	on Sc	hedul	e: PE	202	2 Arm	ıy														Date	: May	y 202	1			
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			Elements in Each)								Fiscal Ye	ear 2021						,					Fiscal Y						
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aunc			1																										
Prior \	Years	s Deliveries: 39)																										
1	20	19 ARMY	17	0	17	-	-	-	-	-	-	-	-	-	-	-	-	1	4	4	4	4	-	-	-	-	-	-	-
1	20	19 FMS ^(‡)	38	0	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	5	4	4	4	2
1	20	19 MC ^(‡)	10	0	10	-	-	-	-	-	-	-	-	-	-	1	5	4	-	-	-	-	-	-	-	-	-	-	-
1	20	19 Total	65	0	65	-	-	-	-	-	-	-	-	-	-	1	5	5	4	4	4	4	4	5	5	4	4	4	2
1	202		4	0	4									_	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	202	21 FMS ^(‡)	29	0	29									_	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	202	21 MC ^(‡)	5	0	5										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	202	21 Total	38		38										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	202	22 ARMY	19	0	19																			Α -	-	-	-	-	-
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U J	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U J	U L	A U G	S E P
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032	opr A / (iation /		on Sch							- A				. ,										y 202		<u> </u>		
	Cost Elements (Units in Each)												Item 2901 /				tillery	Rock	ket Sy	stem	(HIMA	ARS)			nber / HIMA				
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M F R			PROC		BAL DUE AS OF	0 C	N O	D E	J A	F E	M A	A P	M A	J	Year 202 J U	A U	S E	O C	N O	D E	J A	F E	M A	A P	ndar Year M A	J	Ŋ	A U	S E
# aunch	FY	SERVICE	QTY	2022	1 OCT	Т	V	С	N	В	R	R	Y	N	L	G	Р	Т	V	С	N	В	R	R	Y	N	L	G	Р
		eliveries: 399																											
1	2019	ARMY	17	17	0	-	-	-	-																				
1	2019	FMS (‡)	38	28	10	2	2	4	2																				ĺ
1	2019	MC ^(‡)	10	10	0	-	-	-	-																				
1	2019	Total	65	55	10	2	2	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	2021	ARMY	4	0	4	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-				
1	2021	FMS ^(‡)	29	0	29	-	-	-	-	-	-	-	-	-	-	-	2	4	4	1	3	4	4	4	3				
1	2021	MC ^(‡)	5	0	5	-	-	-	-	-	-	-	-	-	-	3	2	-	-	-	-	-	-	-	-				
+	2021	Total	38	0	38	-	-	-	-	-	-	-	-	-	4	3	4	4	4	1	3	4	4	4	3	-	-	-	-
1	2022	ARMY	19	0	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J N	U J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	U N	J U L	A U G	S E P

LI 6200C02901 - High Mobility Artillery Rocket System (H... Army

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Exhibit P-21, Production Schedule: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2032A / 02 / 30	6200C02901 / High Mobility Artillery Rocket System (HIMARS)	C03000 / HIMARS LAUNCHER

		Product	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref #	Manufacturer Name - Location					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	2	4	6	0	6	18	24	0	6	18	24

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.

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

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^(‡) 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.

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6472C98510 / ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203802A

Line Item MDAP/MAIS Code: N/A

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	1,279	282	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,266.402	300.783	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,266.402	300.783	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,266.402	300.783	-	-	-	-	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Ti	ne corresponding	g budget request	s are documente	ed elsewhere.)	1			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	990.150	1,066.606	-	-	-	-	-	-	-	-	-	-

Description:

NOTE: All funds for this program were previously included in CA6700 ATACMS Mods in support of New Missiles.

There is no funding for FY 2022.

Army Tactical Missile System (ATACMS) is the United States (U.S.) Army's primary 24/7, all weather, and surface-to-surface artillery precision missile used by current and future Combatant Commanders to shape the 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 without placing aircraft and crews at risk. It's precision accuracy, along with the absence of potential duds and reduced lethal radii, mitigate the warfighter's collateral damage concerns against hard and soft targets in complex and urban environments.

Secondary	/ Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	282	-	-	-	-	-	-	-	-
	Total Obligation Authority	300.783	-	-	-	-	-	-	-	-
Total:	Quantity	282	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	300.783	-	-	-	-	-	-	-	-

Justification:

There is no funding for FY 2022.

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 Justificatio	n: PB 2022 Army		Date: May 2021	
Appropriation / Budget Activity / Budget S 2032A: Missile Procurement, Army / BA 02: C Assault Missile Sys	ub Activity: Other Missiles / BSA 30: Anti-Tank/	P-1 Line Item N (6472C98510 / A)	umber / Title: RMY TACTICAL MSL SYS (ATACMS) - SYS SUM	
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				
This program supports the Long Range Precision Fires	Cross Functional Team (CFT), ATACMS BLK 1	A (C98501).		

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

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Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)

Assault Missile Sys

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203802A

Line Item MDAP/MAIS Code: N/A

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	осо	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	2,229	425	-	900	-	900	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	182.941	48.300	-	68.278	-	68.278	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	182.941	48.300	-	68.278	-	68.278	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	182.941	48.300	-	68.278	-	68.278	-	-	-	-	-	-
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	82.073	113.647	-	75.864	-	75.864	-	-	-	-	-	-

Description:

Army

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.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	425	-	900	-	900	-	-	-	-
	Total Obligation Authority	48.300	-	68.278	-	68.278	-	-	-	-
Total:	Quantity	425	-	900	-	900	-	-	-	-
Secondary Distribution	Total Obligation Authority	48.300	-	68.278	-	68.278	-	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)

Assault Missile Sys

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total		
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	P-5a, P-21			2,229 / 182.941	425 / 48.300	- / -	900 / 68.278	- / -	900 / 68.278
P-40	40 Total Gross/Weapon System Cost					425 / 48.300	- 1 -	900 / 68.278	- 1 -	900 / 68.278

^{*}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, Operational Need Statement 17-22331, and other emerging urgent requirements.

FY2022 Direct War procurement dollars in the amount of \$68.278 million procures 900 All Up Rounds (AUR), 50 Fire Control Units, 7 Multi-Pack Launchers, 195 Inert Training Rounds, 50 Training Simulators, and supporting equipment. The 900 AURs support Operation Freedom's Sentinel and Operation Inherent Resolve.

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 missiles.

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Exhibit P-5, Cost Analysis: PB 2022 Army

Date: May 2021

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):

	MD	AP	/MA	NIS	Co	de:
--	----	----	-----	-----	----	-----

,						
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	2,229	425	-	900	-	900
Gross/Weapon System Cost (\$ in Millions)	182.941	48.300	-	68.278	-	68.278
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	182.941	48.300	-	68.278	-	68.278
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	182.941	48.300	-	68.278	-	68.278
(The following Resource Summary rows are for informat	ional purposes only. The con	responding budget requests	are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	82.073	113.647	-	75.864	-	75.864

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

	P	rior Years	;		FY 2020			FY 2021		FY	' 2022 Bas	e	F۱	2022 OC	0	FY	2022 Tot	.al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Flyaway Cost		'		'	'		'			'	'		'			'	'	
Recurring Cost																		
All Up Rounds ^(†)	52.050	2,114	110.034	70.259	425	29.860	-	-	-	58.063	900	52.257	-	-	-	58.063	900	52.25
Inert Training Missiles	47.427	520	24.662	44.458	190	8.447	-	-	-	40.636	195	7.924	-	-	-	40.636	195	7.92
Training Simulators	25.291	79	1.998	25.000	38	0.950	-	-	-	26.620	50	1.331	-	-	-	26.620	50	1.33
Multi-Pack Launcher	81.000	10	0.810	81.000	7	0.567	-	-	-	69.143	7	0.484	-	-	-	69.143	7	0.48
Training Support Equipment	-	-	2.795	-	-	1.514	-	-	-	-	-	1.894	-	-	-	-	-	1.89
Fielding	-	-	24.993	-	-	3.358	-	-	-	-	-	1.116	-	-	-	-	-	1.11
Fire Control Units	24.769	91	2.254	25.316	38	0.962	-	-	-	23.760	50	1.188	-	-	-	23.760	50	1.18
Subtotal: Recurring Cost	-	-	167.546	-	-	45.658	-	-	-	-	-	66.194	-	-	-	-	-	66.19
Subtotal: Flyaway Cost	-	-	167.546	-	-	45.658	-	-	-	-	-	66.194	-	-	-	-	-	66.19
Support - Acceptance Testing	Cost																	
Acceptance Test	-	-	5.919	-	-	0.799	-	-	-	-	-	0.128	-	-	-	-	-	0.12
Subtotal: Support - Acceptance Testing Cost	-	-	5.919	-	-	0.799	-	-	-	-	-	0.128	-	-	-	-	-	0.12
Support - Program Managem	ent Cost																	
Government Management	-	-	9.476	-	-	1.843	-	-	-	-	-	1.956	-	-	-	-	-	1.95
Subtotal: Support - Program Management Cost	-	-	9.476	-	-	1.843	-	-	-	-	-	1.956	-	-	-	-	-	1.95

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Date: May 2021 Exhibit P-5, Cost Analysis: PB 2022 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2032A / 02 / 30 C88022 / LETHAL MINIATURE AERIAL

6870C88001 / LETHAL MINIATURE AERIAL MISSILE

SYSTEM (LMAMS) MISSILE SYSTEM (LMAMS)

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

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

	F	rior Years	3		FY 2020			FY 2021		F	Y 2022 Bas	se	F	Y 2022 OC	0	F	/ 2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	82.073	2,229	182.941	113.647	425	48.300	-	-	-	75.864	900	68.278	-	-	-	75.864	900	68.278

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	425	-	900	-	900
	Total Obligation Authority	48.300	-	68.278	-	68.278
Total:	Quantity	425	-	900	-	900
Secondary Distribution	Total Obligation Authority	48.300	-	68.278	-	68.278

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2022 A	ırmy	Date: May 2021
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	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Revision	RFP Issue Date
All Up Rounds ^(†)	1	2020	AeroVironment / Simi Valley, CA	SS / FFP	AMCOM, Redstone Arsenal, AL	Jan 2021	Jun 2021	425	70.259	Υ		
All Up Rounds ^(†)		2022	TBD / TBD	SS / FFP	AMCOM, Redstone Arsenal, AL	Jul 2022	Feb 2023	900	58.063	Υ		

^(†) 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."""

Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) System (LMAMS)			1	/ 2021	: May	Date														าง	2 Arn	2022	e: PB	hedul	on Sc	duction	21, Pro	bit P	Exh
Color Fiscal Year 2021 Fiscal Year 2022 Fiscal Year 2021 Fiscal Year 2022 Fiscal Year 2021 Fiscal Year 2022 Fiscal Year 2021 Fiscal Year 2021 Fiscal Year 2021 Fiscal Year 2021 Fiscal Year 2022 Fiscal Year 2021 Fiscal Year 2022 Fiscal Year 2021 Fis	TURE AER	IINIAT	IAL M	LETH	022 <i>1</i>	C88		.E	ISSIL	L M	AERI	URE			LETH	8001 <i>I</i>	'0C88	687	:								ation / I	opri	Арр
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iv	Cost El (Units in	Cost Elements (Units in Each) PROC SERVICE QTY veries: 2114 VRMY 425	Cost Elements (Units in Each)	Cost Elements (Units in Each)	Cost Elements (Units in Each) ACCEPT PRIOR DUE O O O O C C C C C C	Cost Elements (Units in Each) ACCEPT PRIOR TO 1 DUE O N	Cost Elements (Units in Each)	Cost Elements (Units in Each) ACCEPT PRIOR TO 1 DUE O N D J	Cost Elements (Units in Each) ACCEPT PRIOR TO 1 DUE O N D J F	P-1	P-1 Line 6870C88 SYSTEM	P-1 Line Item 6870C88001 / SYSTEM (LMA Cost Elements (Units in Each) PROC OCT AS OF C O E A E A P A	P-1 Line Item Num 6870C88001 / LETH SYSTEM (LMAMS)	P-1 Line Item Number	P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIAT SYSTEM (LMAMS) Cost Elements (Units in Each)	P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE SYSTEM (LMAMS)	P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AER SYSTEM (LMAMS) Cost Elements (Units in Each)	P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL Note: 6870C88001 / LETHAL MINIATURE AERIAL	P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSISSYSTEM (LMAMS) Cost Elements (Units in Each)	P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE C88022 / LETHAL MINIATURE C8802	P-1 Line Item Number / Title:						

Exhibit P-21, Production Schedule: PB 2022 Army	Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30	Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)

		Produ	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)			
MF	R					Ini	tial			Red	order	
Re	f Manufacturer	MOD 5	4055	MAY 5	ALT	ALT	Manufacturing	Total	ALT	ALT	Manufacturing	Total
#	Name - Location	MSR For 2022	1-8-5 For 2022	MAX For 2022	Prior to Oct 1	After Oct 1	PLT	After Oct 1	Prior to Oct 1	After Oct 1	PLT	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	7	8	1	1	5	6

Remarks:

Since All Up Rounds are delivered in response to Joint Urgent Operational Needs Statement (JUONS), neither Minimum Sustaining Rate (MSR) nor MAX apply to Lethal Miniature Aerial Missile System (LMAMS).

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

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

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

0962C50700 / Patriot Mods

Modifications

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

Line Item MDAP/MAIS Code: N/A

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

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	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	4,485.842	278.716	278.050	205.469	-	205.469	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4,485.842	278.716	278.050	205.469	-	205.469	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	4,485.842	278.716	278.050	205.469	-	205.469	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	35,321.591	14,669.263	27,805.000	-	-	-	-	-	-	-	-	-

Description:

The PATRIOT Mods program implements critical capability, readiness and sustainability modifications to the weapon system, maintains Integrated Logistics Support, and supports material 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 is 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) and the Lower Tier Air and Missile Defense Sensor (LTAMDS).

FY22 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, Availability, Availability, Availability, Availability, RAM) Mods; Recapitalization (RECAP); Battery Command Post/ Tactical Command System /Computer Software Module (BCP/TCS/CSM) Mod; Communications Obsolescence Upgrade, 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 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 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. Quantity represents 1 battalion a year.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	
2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10:	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

Modifications

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.

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.

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.

Logistics Recurring includes all aspects of Integrated Logistics Support (ILS) management, e.g., maintenance support, facilities, personnel, training, testing, and fielding.

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.

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

Secondary	/ Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	278.716	278.050	205.469	-	205.469	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	278.716	278.050	205.469	-	205.469	-	-	-	-

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P-1 Line #17

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Exhil	oit P-40, Budget Line Item Justification: P	B 2022 Ar	my					Date: Ma	ay 2021		
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 Cod	e (A=Service Ready, B=Not Service Ready):	Pro	ogra	m Eleme	ents for Code B Iten	ms: N/A	Other F	Related Program Ele	ements: 0607865A		
Line It	em MDAP/MAIS Code: N/A										
	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 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)				- / 4,485.842	- / 278.716	- / 278.050	- /205.469	- / -	- / 205.469	
P-40	Total Gross/Weapon System Cost				- / 4,485.842	- / 278.716	- / 278.050	- / 205.469	- 1 -	- / 205.469	
*Title re	presents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for An	nmun	ition; and/	or 3) the Number / Title	(Modification Type) for N	Modifications.				
	NS fielding support while awaiting the Army standard so IOT Mods supports and facilitates enhanced capabilities	•	Ū			issile Defense (IAMD) architecture.				

Exhibit P-3a, Individual Modification: PB 2022 Army	Date: May 2021	
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):	_	MD				
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	4,485.842	278.716	278.050	205.469	-	205.469
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4,485.842	278.716	278.050	205.469	-	205.469
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	4,485.842	278.716	278.050	205.469	-	205.469
(The following Resource Summary rows are for information	onal purposes only. The corr	esponding budget requests	are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	35,321.591	14,669.263	27,805.000	-	-	-

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.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	278.716	278.050	205.469	-	205.469
Total:	Quantity	-	•	-	=	-
Secondary Distribution	Total Obligation Authority	278.716	278.050	205.469	-	205.469

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Exhibit P-3a, Individual Modification: PB 2022 Army **Date: May 2021** Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: **Modification Number / Title:** 0962C50700 / Patriot Mods 2032A / 03 / 10 C50700 / Patriot Mods ID Code (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code: **Modification Type:** Various Related RDT&E PEs: Models of Systems Affected: Various **Prior Years** FY 2020 FY 2021 **FY 2022 Base FY 2022 OCO** FY 2022 Total Qty (Each) I **Financial Plan** Total Cost (\$ M) **Procurement** Modification Item 1 of 23: RAM Mods A Kits Recurring Kit Quantity 6.819 / 707.607 144 / 24.573 153 / 23.519 118 / 18.118 - 1 -118 / 18.118 - / 16.650 - / 15.852 - / 15.852 Training - / 106.008 - / 16.656 - 1 -- /3.331 Training Equipment - /32.578 - /3.332 - /3.092 - 1 -- /3.092 Support Equipment - /62.404 - /8.657 - /8.661 - /8.911 - 1 -- /8.911 Fielding Support and NET - / 109.980 - / 14.652 - / 14.658 - / 14.385 - 1 -- / 14.385 Integrated Logistics Support - *I* 13.288 - /1.332 - /1.332 - /2.072 - 1 -- /2.072 6,819 / 1,031.865 144 / 69.195 153 / 68.158 118 / 62.430 - / -118 / 62.430 Subtotal: Recurring 144 / 69.195 153 / 68.158 118 / 62.430 - / -118 / 62.430 Subtotal: RAM Mods 6,819 / 1,031.865 Modification Item 2 of 23: Recapitalization A Kits Recurring Kit Quantity 16 / 259.500 1 / 14.101 1 / 14.104 1 / 14.300 1 / 14.300 Integrated Logistics Support - / 20.058 - /1.100 - /1.100 - /1.200 - 1 -- /1.200 1 / 15.500 16 / 279.558 1 / 15.201 1 / 15.204 1 / 15.500 - / -Subtotal: Recurring 16 / 279.558 1 / 15.201 1 / 15.204 1 / 15.500 - / -1 / 15.500 Subtotal: Recapitalization Modification Item 3 of 23: Communications Obsolescence A Kits Recurring 2 / 20.678 1 / 20.906 1 / 30.684 2 / 20.678 Kits - / -- 1 -- / -1/20.906 1/30.684 2/20.678 - / -2 / 20.678 Subtotal: Recurring 2 / 20.678 2 / 20 678 - / -1/20.906 1/30.684 - / -Subtotal: Communications Obsolescence Modification Item 4 of 23: Dismounted Information Coordination Central B Kits Non-Recurring Dismounted Information Coordination Cent 2 / 20.000 1 / 10.346 - 1 -- 1 -- 1 -2/20.000 1 / 10.346 - / -- / -- / -- / -Subtotal: Non-Recurring

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Subtotal: Dismounted Information Coordination Central

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Exhibit P-3a, Individual Modification: PB 2022 ArmyDate: May 2021Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:
0962C50700 / Patriot ModsModification Number / Title:
C50700 / Patriot Mods

2032A / 03 / 10		1962C507007 Patriot IVI	ous		C507007 Patriot Mods		
ID Code (A=Service Ready, B=Not Service Ready):	-		MDAP/MAIS Cod	e:			
Models of Systems Affected: Various	Modific	ation Type: Various					
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
Financial Plan	Qty (Each) I Total Cost (\$ M)						
Modification Item 5 of 23: BCP/TCS/CSM			•	•	-		
A Kits							
Recurring							
Engineering Change Orders	- /4.385	- 10.770	- 10.770	- 10.770	- 1 -	- 10.	
Fielding Support	- /6.919	- / 0.980	- / 0.980	- /0.980	- 1 -	- 10.	
Obsolescence/Tech Refresh	- / 1.573	- / 0.280	- /0.280	- / 0.280	- 1 -	- 10.	
Software/Systems Engineering	- /31.640	- / 0.980	- / 0.980	- / 0.980	- 1 -	- 10.	
Integrated Logistics Support	- <i>l</i> 54.180	- /3.990	- /3.990	- /3.990	- 1 -	- 13.	
Subtotal: Recurring	- /98.697	- /7.000	- /7.000	- /7.000	- / -	- /7.	
Non-Recurring							
BCP Kit Quantity	62 / 29.435	- 1 -	- 1 -	- 1 -	- 1 -	- 1	
Subtotal: Non-Recurring	62 / 29.435	- / -	- / -	- / -	- / -	- /	
Subtotal: BCP/TCS/CSM	62 / 128.132	- /7.000	- /7.000	- /7.000	- / -	- /7	
Modification Item 6 of 23: International Engineering Services Program (IESP)	,						
A Kits							
Recurring							
International Engineering Services Prog	- 1 -	- 1 -	- / 59.000	- / 59.000	- 1 -	- /59	
Subtotal: Recurring	- / -	- / -	- /59.000	- /59.000	- / -	- /59	
Subtotal: International Engineering Services Program (IESP)	- / -	- / -	- /59.000	- /59.000	- / -	- /59	
Modification Item 7 of 23: Logistics Recurring			1	1	J.		
A Kits							
Recurring							
Recurring Logistics Support	- 1 -	- 1 -	- /27.091	- /27.561	- 1 -	- 127	
<u> </u>	- 1 -	- 1 - - 1 -	- /27.091 - /27.091	- /27.561 - /27.561	- 1 - - / -		
Logistics Support Subtotal: Recurring						- /27	
Logistics Support Subtotal: Recurring Subtotal: Logistics Recurring	- / -	- / -	- /27.091	- /27.561	- / -	- /27	
Logistics Support Subtotal: Recurring	- / -	- / -	- /27.091	- /27.561	- / -	- /27	
Logistics Support Subtotal: Recurring Subtotal: Logistics Recurring Modification Item 8 of 23: Report Rocket Classification A Kits	- / -	- / -	- /27.091	- /27.561	- / -	- /27	
Logistics Support Subtotal: Recurring Subtotal: Logistics Recurring Modification Item 8 of 23: Report Rocket Classification A Kits Non-Recurring	- / -	- / -	- /27.091 - /27.091	- /27.561 - /27.561	- / -	- /27. - /27.	
Logistics Support Subtotal: Recurring Subtotal: Logistics Recurring Modification Item 8 of 23: Report Rocket Classification A Kits	- / -	- / -	- /27.091	- /27.561	- / -	- 127. - /27. - /27. - 16.	

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Exhibit P-3a, Individual Modification: PB 2022 Army

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

P-1 Line Item Number / Title:
0962C50700 / Patriot Mods

Date: May 2021

Modification Number / Title:
C50700 / Patriot Mods

ID Code (A=Service Ready, B=Not Service Ready):	MDAP/MAIS Code:								
Models of Systems Affected: Various	Modifica	tion Type: Various		Related RDT&E	PEs:				
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total			
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty <i>(Each) I</i> Total Cost <i>(\$ M)</i>							
Modification Item 9 of 23: PATRIOT Maintenance Trainer (PMT)									
A Kits									
Recurring									
Kit Quantity	6 / 87.941	1 / 19.500	- 1 -	- 1 -	- 1 -	- 1			
Subtotal: Recurring	6 / 87.941	1 / 19.500	- / -	- / -	- / -	- /			
Non-Recurring			'	•	,				
Training Support	- /4.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1			
Subtotal: Non-Recurring	- /4.000	- / -	- / -	- / -	- / -	- /			
Subtotal: PATRIOT Maintenance Trainer (PMT)	6/91.941	1 / 19.500	- / -	- / -	- / -	- /			
Modification Item 10 of 23: PATRIOT Multi-Echelon Training (PMET)	<u> </u>	1	1	1	,				
A Kits									
Recurring									
Kit Quantity	20 / 26.180	4/7.000	4 / 7.000	3 / 6.000	- 1 -	3/6			
Subtotal: Recurring	20 / 26.180	4/7.000	4 / 7.000	3/6.000	- / -	3/6			
Subtotal: PATRIOT Multi-Echelon Training (PMET)	20 / 26.180	4 / 7.000	4/7.000	3/6.000	- / -	3/6			
Modification Item 11 of 23: SNAP/TROPO			L		J				
A Kits					-				
Recurring									
Kit Quantity SNAP	6 / 0.830	- 1 -	- 1 -	- 1 -	- 1 -	- 1			
Support	- /6.926	- /1.115	- 1 -	- 1 -	- 1 -	- 1			
Integrated Logistics Support	- /3.360	- / 0.633	- 1 -	- 1 -	- 1 -	- 1			
Training	- / 0.173	- /0.002	- 1 -	- 1 -	- 1 -	- 1			
Equipment	- / 0.859	- 1 -	- 1 -	- 1 -	- 1 -	- 1			
Subtotal: Recurring	6 / 12.148	- /1.750	- / -	- / -	- / -	- ,			
Non-Recurring					,				
Kit Quantity TROPO	26 / 12.884	- 1 -	- 1 -	- 1 -	- 1 -	- 1			
Subtotal: Non-Recurring	26 / 12.884	- / -	- / -	- / -	- / -	- ,			
Subtotal: SNAP/TROPO	32 / 25.032	- /1.750	- / -	- / -	- / -	- ,			
Modification Item 12 of 23: Enhanced Launcher Electronics System (ELES)		,	,	,	,				
A Kits									

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Exhibit P-3a, Individual Modification: PB 2022 ArmyDate: May 2021Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:
0962C50700 / Patriot ModsModification Number / Title:
C50700 / Patriot Mods

2032A / 03 / 10		0962C50700 / Patriot M	lods	0	C50700 / Patriot Mods			
D Code (A=Service Ready, B=Not Service Ready):	·		MDAP/MAIS Cod	e:	'			
Models of Systems Affected: Various	Modifie	cation Type: Various	-	Related RDT&	T&E PEs:			
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total		
Financial Plan	Qty (Each) I Total Cost (\$ M)							
Recurring		•						
Kit Quantity	346 / 499.205	19 / 73.191	10 / 40.717	- 1 -	- 1 -	-		
Subtotal: Recurring	346 / 499.205	19 / 73.191	10 / 40.717	- / -	- / -	-		
Subtotal: Enhanced Launcher Electronics System (ELES)	346 / 499.205	19 / 73.191	10 / 40.717	- / -	- / -	-		
Modification Item 13 of 23: Digital Sidelobe Canceller (DSLC)								
A Kits	_							
Recurring	-							
Kit Quantity	71 / 152.954	10 / 27.428	- 1 -	- 1 -	- 1 -	-		
Subtotal: Recurring	71 / 152.954	10 / 27.428	- / -	- / -	- / -	-		
Subtotal: Digital Sidelobe Canceller (DSLC)	71 / 152.954	10 / 27.428	- / -	- / -	- / -	-		
Modification Item 14 of 23: Command Obsolescence Alleviation	,	,	,	-	,			
A Kits								
Recurring	-							
Command Obsolescnece Alleviation	- 17.000	- /1.989	- 1 -	- 1 -	- 1 -	-		
Subtotal: Recurring	- /7.000	- /1.989	- / -	- / -	- / -	-		
Subtotal: Command Obsolescence Alleviation	- /7.000	- /1.989	- / -	- / -	- / -	-		
Modification Item 15 of 23: MAP/RDP Encryption Compliance	,	1		1	,			
A Kits	-							
Non-Recurring	-							
Certification	- 1 -	- /11.999	- / 11.996	- 1 -	- 1 -	-		
Subtotal: Non-Recurring	- / -	- /11.999	- /11.996	- / -	- / -	-		
Subtotal: MAP/RDP Encryption Compliance	- / -	- /11.999	- /11.996	- / -	- / -	-		
Modification Item 16 of 23: IFF Antenna Redesign	L	I		L				
A Kits								
Non-Recurring	-							
Kits	- 1 -	18 / 8.000	9 / 4.000	- 1 -	- 1 -	-		
Subtotal: Non-Recurring	- / -	18 / 8.000	9 / 4.000	- / -	- / -	-		
Subtotal: IFF Antenna Redesign	- / -	18 / 8.000	9/4.000	- / -	- / -	_		

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Exhibit P-3a, Individual Modification: PB 2022 ArmyDate: May 2021Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:
0962C50700 / Patriot ModsModification Number / Title:
C50700 / Patriot Mods

2032A / 03 / 10	0	962C507007 Patriot IV	ious	C507007 Patriot Mods			
ID Code (A=Service Ready, B=Not Service Ready):			MDAP/MAIS Cod	de:			
Models of Systems Affected: Various	Modifica	ation Type: Various	Related RDT&E PEs:				
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
Financial Plan	Qty (Each) I Total Cost (\$ M)						
Modification Item 17 of 23: Combined Crypto Modification Phase I (CCMPI)	,						
A Kits							
Recurring							
Kit Quantity	150 / 48.970	- 1 -	- 1 -	- 1 -	- 1 -	- 1	
Kit Quantity (GFE)	- <i>I</i> 1.072	- 1 -	- 1 -	- 1 -	- 1 -	- 1	
Subtotal: Recurring	150 / 50.042	- / -	- / -	- / -	- / -	- /	
Non-Recurring	'	'		'	'		
Training	- / 0.396	- 1 -	- 1 -	- 1 -	- 1 -	- 1	
Subtotal: Non-Recurring	- /0.396	- / -	- / -	- / -	- / -	- /	
Subtotal: Combined Crypto Modification Phase I (CCMPI)	150 / 50.438	- / -	- / -	- / -	- / -	- /	
Modification Item 18 of 23: Radar Digital Processor - Configuration (RDP-C)		,	,	'	,		
A Kits							
Recurring							
Kit Quantity	80 / 240.766	- 1 -	- 1 -	- 1 -	- 1 -	- 1	
Fielding	- /14.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1	
Support Equipment	- /36.942	- 1 -	- 1 -	- 1 -	- 1 -	- 1	
Subtotal: Recurring	80 / 291.708	- / -	- / -	- / -	- / -	- /	
Subtotal: Radar Digital Processor - Configuration (RDP-C)	80 / 291.708	- / -	- / -	- / -	- / -	- /	
Modification Item 19 of 23: Air Defense Artillery School Upgrades/ TADSS		,	,	'	,		
A Kits							
Recurring							
Radar Kit Quantity	4 / 96.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1	
Subtotal: Recurring	4 / 96.000	- / -	- / -	- / -	- / -	- /	
Subtotal: Air Defense Artillery School Upgrades/ TADSS	4 / 96.000	- / -	- / -	- / -	- / -	- /	
Modification Item 20 of 23: Modern Manstation (MMS)	l .	l I	I		I		
A Kits							
Recurring							
Fielding	- /7.825	- 1 -	- 1 -	- 1 -	- 1 -	- 1	
Support Equipment	- /56.567	- 1 -	- 1 -	- 1 -	- 1 -	- 1	

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Exhibit P-3a, Individual Modification: PB 2022 Army

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

Date: May 2021

Modification Number / Title:
0962C50700 / Patriot Mods

C50700 / Patriot Mods

2032A / 03 / 10 ID Code (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code: **Modification Type:** Various Related RDT&E PEs: Models of Systems Affected: Various **Prior Years** FY 2020 FY 2021 **FY 2022 Base FY 2022 OCO** FY 2022 Total Qty (Each) I **Financial Plan** Total Cost (\$ M) - /64.392 - / -- / -- / -- / -- / -Subtotal: Recurring Non-Recurring Kit Quantity 82 / 55.842 - 1 -- 1 -- 1 -- 1 -- 1 -82 / 55.842 - / -- / -- / -- / -- / -Subtotal: Non-Recurring 82 / 120.234 - / -- / -- / -- / -- / -Subtotal: Modern Manstation (MMS) Modification Item 21 of 23: Reconfigurable Table Top Trainers (RT3) A Kits Recurring 489 / 31.338 Kit Quantity - 1 -- 1 -- 1 -- 1 -- 1 -489 / 31.338 - / -- / -- / -- / -- / -Subtotal: Recurring Subtotal: Reconfigurable Table Top Trainers (RT3) 489 / 31.338 - / -- / -- / -- / -- / -Modification Item 22 of 23: Assured PNT A Kits Recurring Hardware Integration 798 / 3.000 - 1 -- 1 -- 1 -Subtotal: Recurring 798 / 3.000 - / -- / -- / -- / -- / -Subtotal: Assured PNT 798 / 3.000 - / -- / -- / -- / -- / -Modification Item 23 of 23: Test Detachment A Kits Recurring 1 / 56.000 - 1 -Equipment - 1 -- / -- 1 -- / -- / -- / -- / -- / -- / -Subtotal: Recurring 1 / 56.000 - / -- / -- / -- / -Subtotal: Test Detachment 1 / 56.000 - / -8.978 / 2.910.585 178 / 276.850 124 / 204.169 Subtotal: Procurement, All Modification Items 199 / 277.516 124 / 204.169 - / -Installation Modification Item 1 of 23: RAM Mods 6,784 / 151.613 137 / -149 / -135 / -135 / -Modification Item 2 of 23: Recapitalization 16 / 229.030 1 / 1.200 1 / 1.200 1 / 1.300 - 1 -1 / 1.300 Modification Item 5 of 23: BCP/TCS/CSM 79 / 1,192.582 - 1 -- 1 -- 1 -- 1 -- 1 -150 / 2.032 - 1 -- 1 -- 1 -- 1 -- 1 -Modification Item 17 of 23: Combined Crypto Modification Phase I (CCMPI) 7.029 / 1.575.257 138 / 1.200 150 / 1.200 136 / 1.300 - / -136 / 1.300 Subtotal: Installation

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Exhibit P-3a, Individual Modification: PE	Date : May 2021	Date: May 2021					
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 Co	de:	,		
Models of Systems Affected: Various	Modif	ication Type: Various		Related RDT	Related RDT&E PEs:		
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)					
Total							
Total Cost (Procurement + Support + Installation)	4,485.842	278.716	278.050	205.469	-	205.4	

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Exhibit P-3a, Individual Modification: PE		Date: May 2021				
Appropriation / Budget Activity / Budge 2032A / 03 / 10	t Sub Activity:	P-1 Line Item Numl 0962C50700 / Patric		Modification Number / Title: C50700 / Patriot Mods		
ID Code (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code:						
Modification Item 1 of 23: RAM Mods						
Manufacturer Information						
Manufacturer Name: Raytheon			Manufacturer Location: Andover, MA			
Administrative Leadtime (in Months): 2			Production Leadtime (in Months): 14			
Dates	F	Y 2020	FY 2021	FY 2022		
Contract Dates	De	ec 2019	Dec 2020	Dec 2021		
Delivery Dates Feb 2021			Feb 2022	Feb 2023		

Installation Information

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

	,	,				
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Installation Cost	Qty (Each) I Total Cost (\$ M)					
Prior Years	6,784 / 151.613	65 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	- 1 -	72 / 0.000	72 / 0.000	- 1 -	- 1 -	- 1 -
FY 2021	- 1 -	- 1 -	77 / 0.000	76 / 0.000	- 1 -	76 / 0.000
FY 2022	- 1 -	- 1 -	- 1 -	59 / 0.000	- 1 -	59 / 0.000
Total	6,784 / 151.613	137 / 0.000	149 / 0.000	135 / 0.000	- 1 -	135 / 0.000

Installation Schedule

installation Schedule														
		FY 2020				FY 2021			FY 2022					
		PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
	In	6,923	32	32	32	31	31	41	41	40	40	37	36	36
	Out	6,853	33	32	32	32	31	31	41	41	40	40	37	36

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P-1 Line #17

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Exhibit P-3a, Individual Modification: PE	3 2022 Army			Date: May 2021			
Appropriation / Budget Activity / Budge 2032A / 03 / 10	-	P-1 Line Item Num l 0962C50700 / Patric	****	Modification Number / Title: C50700 / Patriot Mods			
ID Code (A=Service Ready, B=Not Service Ready):			MDAP/MAIS Code:				
Modification Item 2 of 23: Recapitalization							
Manufacturer Information							
Manufacturer Name: Various			Manufacturer Location: Various				
Administrative Leadtime (in Months): 6			Production Leadtime (in Months): 12				
Dates	FY 2	020	FY 2021	FY 2022			
Contract Dates	Apr 2	2020	Apr 2021	Apr 2022			
Delivery Dates	Apr 2	2021	Apr 2022	Apr 2023			

Installation Information

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

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Installation Cost	Qty (Each) I Total Cost (\$ M)					
Prior Years	15 / 227.830	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	1 / 1.200	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2021	- 1 -	1 / 1.200	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	- 1 -	- 1 -	1 / 1.200	- 1 -	- 1 -	- 1 -
Total	16 / 229.030	1 / 1.200	1 / 1.200	1 / 1.300	- 1 -	1 / 1.300

Installation Schedule

IIIStaliation 3	istaliation scriedule												
			FY 2020			FY 2021				FY 2022			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
In	16	-	-	1	-	-	-	1	-	-	-	1	-
Out	15	-	1	-	-	-	1	-	-	-	1	-	-

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Exhibit P-3a, Individual Modification: Pl	3 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budge 2032A / 03 / 10	t Sub Activity: P-1 Line Item Nu 0962C50700 / Pa		Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):	,	MDAP/MAIS Code:	,
Modification Item 3 of 23: Communications Obsoles	cence		
Manufacturer Information			
Manufacturer Name: Raytheon		Manufacturer Location: Andover, MA	
Administrative Leadtime (in Months): 3		Production Leadtime (in Months): 5	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates	Jan 2020	Jan 2021	Jan 2022
Delivery Dates	Jun 2020	Jun 2021	Jun 2022
Installation Information			
Method of Implementation (Organic): TBD		Installa	ition Quantity: 0

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Exhibit P-3a, Individual Modification: PB	2022 Army			Date: May 2021					
Appropriation / Budget Activity / Budget 2032A / 03 / 10	Sub Activity:	P-1 Line Item N 0962C50700 / P		Modification Number / Title: C50700 / Patriot Mods					
ID Code (A=Service Ready, B=Not Service Ready):			MDAP/MAIS Code:						
Modification Item 4 of 23: Dismounted Information C	Coordination Central								
Manufacturer Information									
Manufacturer Name: N/A			Manufacturer Location: N/A						
Administrative Leadtime (in Months):			Production Leadtime (in Months)						
Dates	F	Y 2020	FY 2021	FY 2022					
Contract Dates									
Delivery Dates									
Installation Information									
Method of Implementation (Organic): Engineering §	Services (Included in ur	nit cost)		Installation Quantity: 0					

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Exhibit P-3a, Individual Modification: Pl	3 2022 Army			Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Numb 0962C50700 / Patrio				Modification Number / Title: C50700 / Patriot Mods				
ID Code (A=Service Ready, B=Not Service Ready):			MDAP/MAIS Code:					
Modification Item 5 of 23: BCP/TCS/CSM								
Manufacturer Information								
Manufacturer Name: Various			Manufacturer Location: Various					
Administrative Leadtime (in Months):			Production Leadtime (in Months):					
Dates	F	Y 2020	FY 2021	FY 2022				
Contract Dates								
Delivery Dates								

Installation Information

Method of Implementation: Various (Included in unit cost)

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
Installation Cost	Qty (Each) I Total Cost (\$ M)						
Prior Years	79 / 1,192.582	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	
Total	79 / 1,192.582	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	

Installation Schedule

		FY 2020				FY 2021				FY 2022			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
In	79	-	-	-	-	-	-	-	-	-	-	-	-
Out	79	-	-	-	-	-	-	-	-	-	-	-	-

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P-1 Line #17

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Exhibit P-3a, Individual Modification: PE	3 2022 Army			Date : May 2021
Appropriation / Budget Activity / Budge 2032A / 03 / 10	t Sub Activity:	P-1 Line Item Nur 0962C50700 / Patr		Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):			MDAP/MAIS Code:	
Modification Item 6 of 23: International Engineering	Services Program (IE	SP)	·	
Manufacturer Information				
Manufacturer Name: Multiple			Manufacturer Location: Various	
Administrative Leadtime (in Months):			Production Leadtime (in Months):	
Dates		FY 2020	FY 2021	FY 2022
Contract Dates				
Delivery Dates				
Installation Information				
Method of Implementation (Organic): Various			Installat	on Quantity: 0

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Exhibit P-3a, Individual Modification: Pl	B 2022 Army			Date: May 2021					
Appropriation / Budget Activity / Budge 2032A / 03 / 10	et Sub Activity:	P-1 Line Item Num 0962C50700 / Patric		Modification Number / Title: C50700 / Patriot Mods					
ID Code (A=Service Ready, B=Not Service Ready):		1	MDAP/MAIS Code:						
Modification Item 7 of 23: Logistics Recurring									
Manufacturer Information									
Manufacturer Name: Logistics			Manufacturer Location: Huntsville, A	_					
Administrative Leadtime (in Months):			Production Leadtime (in Months):						
Dates	F	Y 2020	FY 2021	FY 2022					
Contract Dates									
Delivery Dates									
locate listing information									
Installation Information			T.						
Method of Implementation (Organic): Various			I	nstallation Quantity: 0					

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Exhibit P-3a, Individual Modification: PB	3 2022 Army		Date : May 2021
Appropriation / Budget Activity / Budget 2032A / 03 / 10	t Sub Activity: P-1 Line Item 0962C50700 /	Number / Title: Patriot Mods	Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):		MDAP/MAIS Code:	
Modification Item 8 of 23: Report Rocket Classification	ion		
Manufacturer Information			
Manufacturer Name: Raytheon		Manufacturer Location: Andover, MA	
Administrative Leadtime (in Months): 4		Production Leadtime (in Months): 5	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates	Jan 2020	Jan 2021	Jan 2022
Delivery Dates	Jun 2020	Jun 2021	Jun 2022
Installation Information			
Method of Implementation (Organic): PM Fielding	Team (Included in Fielding cost)	Installa	ation Quantity: 0

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Exhibit P-3a, Individual Modification: Pl	3 2022 Army		Date : May 2021		
Appropriation / Budget Activity / Budge 2032A / 03 / 10		n Number / Title: / Patriot Mods	Modification Number / Title: C50700 / Patriot Mods		
ID Code (A=Service Ready, B=Not Service Ready) : MDAP/MAIS Code:					
Modification Item 9 of 23: PATRIOT Maintenance T	rainer (PMT)				
Manufacturer Information					
Manufacturer Name: Raytheon		Manufacturer Location: Tewksbury, MA			
Administrative Leadtime (in Months): 4		Production Leadtime (in Months): 4			
Dates	FY 2020	FY 2021	FY 2022		
Contract Dates	Feb 2020				
Delivery Dates	Jun 2020				
les telletics information					
Installation Information		1.			
Method of Implementation (Organic): PM Office, C	contractor Team	Insta	llation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB	2022 Army		Date : May 2021
Appropriation / Budget Activity / Budget 2032A / 03 / 10	Sub Activity: P-1 Line Item N 0962C50700 / F		Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):		MDAP/MAIS Code:	
Modification Item 10 of 23: 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 2020	FY 2021	FY 2022
Contract Dates	Feb 2020	Feb 2021	Feb 2022
Delivery Dates	May 2020	May 2021	May 2022
Installation Information			
Method of Implementation (Organic): PM Office, Co	ontractor Team (Included in unit cost)	Installati	on Quantity: 0

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Exhibit P-3a, Individual Modification: PB	2022 Army			Date: May 2021
Appropriation / Budget Activity / Budget 2032A / 03 / 10	Sub Activity:	P-1 Line Item I 0962C50700 / I		Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):			MDAP/MAIS Code:	
Modification Item 11 of 23: SNAP/TROPO				
Manufacturer Information				
Manufacturer Name: TeleCommunication Systems (TeleCommunication Systems)	CS)		Manufacturer Location: Tampa, FL	
Administrative Leadtime (in Months): 1			Production Leadtime (in Months): 9	
Dates	i	FY 2020	FY 2021	FY 2022
Contract Dates				
Delivery Dates				
Installation Information				
Method of Implementation (Organic): Depot, PM, co	ontractor team		Installati	on Quantity: 0

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Exhibit P-3a, Individual Modification: PB 2022 Army Appropriation / Budget Activity / Budget Sub Activity: 0962C50700 / Patriot Mods C50700 / Patr ID Code (A-Service Ready): MDAP/MAIS Code:	Number / Title:
2032A / 03 / 10 Decode (A=Service Ready, B=Not Service Ready): Modification Item 12 of 23: Enhanced Launcher Electronics System (ELES) Manufacturer Information Manufacturer Name: Various Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 18 Dates FY 2020 FY 2021 Contract Dates Dec 2019 Delivery Dates Installation Information	
Manufacturer Information Manufacturer Name: Various Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 18 Dates FY 2020 Contract Dates Dec 2019 Delivery Dates Jun 2021 Installation Information	
Manufacturer Information Manufacturer Name: Various Manufacturer Location: Various Manufacturer Location: Various Manufacturer Location: Various Production Leadtime (in Months): 18 Production Leadtime (in Months): 18 Production Leadtime (in Months): 18 Dates FY 2020 FY 2021 Dec 2019 Dec 2020 Delivery Dates Jun 2021 Jun 2022	
Manufacturer Name: Various Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 18 Dates FY 2020 FY 2021 Contract Dates Dec 2019 Delivery Dates Dun 2021 Dun 2022 Installation Information	
Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 18 Producti	
Dates FY 2020 FY 2021 Contract Dates Dec 2019 Dec 2020 Delivery Dates Jun 2021 Jun 2022 Installation Information	
Contract Dates Dec 2019 Dec 2020 Delivery Dates Jun 2021 Jun 2022 Installation Information	
Delivery Dates Jun 2021 Jun 2022 Installation Information	FY 2022
nstallation Information	
lethod of Implementation (Organic): Fielding Team (Included in unit cost)	

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hibit P-3a, Individual Modification:	PB 2022 Army		Date : May 2021
propriation / Budget Activity / Budg 32A / 03 / 10		n Number / Title: / Patriot Mods	Modification Number / Title: C50700 / Patriot Mods
Code (A=Service Ready, B=Not Service Ready):		MDAP/MAIS Code:	
dification Item 13 of 23: Digital Sidelobe Cand	celler (DSLC)		
nufacturer Information			
nufacturer Name: Raytheon		Manufacturer Location: Tewkbury	
ministrative Leadtime (in Months): 3		Production Leadtime (in Months):	18
Dates	FY 2020	FY 2021	FY 2022
ntract Dates	Jan 2020		
livery Dates	Jul 2021		
stallation Information			
thod of Implementation (Organic): Depot, PM	A Office Contractor Team (Included in unit con	4\	Installation Quantity: 0

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Exhibit P-3a, Individual Modification: PE	3 2022 Army		Date : May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10		ine Item Number / Title: C50700 / Patriot Mods	Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):		MDAP/MAIS Code:	
Modification Item 14 of 23: Command Obsolescence	e Alleviation		
Manufacturer Information			
Manufacturer Name: Various		Manufacturer Location: Various	
Administrative Leadtime (in Months): 8		Production Leadtime (in Months):	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates			
Delivery Dates			
Installation Information			
Method of Implementation (Organic): PM Office, C	ontractor Team (Included in unit o	ost)	Installation Quantity: 0

LI 0962C50700 - Patriot Mods Army

		UNCLA	SSIFIED	
Exhibit P-3a, Individual Modification: PE	3 2022 Army			Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10		P-1 Line Item Num 0962C50700 / Patric		Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):			MDAP/MAIS Code:	
Modification Item 15 of 23: MAP/RDP Encryption Co	ompliance			
Manufacturer Information				
Manufacturer Name: Raytheon			Manufacturer Location: Andover, MA	
Administrative Leadtime (in Months): 4			Production Leadtime (in Months): 5	
Dates	F	Y 2020	FY 2021	FY 2022
Contract Dates	Ja	an 2020	Jan 2021	
Delivery Dates	Jı	un 2020	Jun 2021	
Installation Information				
Method of Implementation (Organic): Contractor Te	cam (Included in unit co	ost) PM Fiolding Toom	Instal	llation Quantity: 0

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Exhibit P-3a, Individual Modification: PE	3 2022 Army		Date : May 2021
Appropriation / Budget Activity / Budge 2032A / 03 / 10	t Sub Activity: P-1 Line Item N 0962C50700 / F		Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):	·	MDAP/MAIS Code:	
Modification Item 16 of 23: IFF Antenna Redesign		•	
Manufacturer Information			
Manufacturer Name: Raytheon		Manufacturer Location: Andover, MA	
Administrative Leadtime (in Months): 4		Production Leadtime (in Months):	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates	Jan 2020	Jan 2021	
Delivery Dates	Feb 2021	Feb 2022	
Installation Information			
Method of Implementation (Organic): PM Fielding	Feam (Included in Fielding cost)	Installa	tion Quantity: 0

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Exhibit P-3a, Individual Modification: Pl	3 2022 Army				Date: May 2021		
Appropriation / Budget Activity / Budge 2032A / 03 / 10	-	P-1 Line Item Number 0962C50700 / Patriot N		· · ·	Modification Number / Title: C50700 / Patriot Mods		
ID Code (A=Service Ready, B=Not Service Ready):	·		MDAP/MAIS Code:				
Modification Item 17 of 23: Combined Crypto Modification	ication Phase I (CCMPI)						
Manufacturer Information							
Manufacturer Name: OGA		M	Manufacturer Location: N/A				
Administrative Leadtime (in Months): 3		P	Production Leadtime (in Months): 12				
Dates	FY 2	020		FY 2021	FY 2022		
Contract Dates							
Delivery Dates							

Installation Information

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

			Ì				
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
Installation Cost	Qty (Each) I Total Cost (\$ M)						
Prior Years	150 / 2.032	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	
FY 2020	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	
FY 2021	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	
Total	150 / 2.032	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	

Installation Schedule

- [ilistaliation ot	riedule												
			FY 2020			FY 2021				FY 2022				
		PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
	In	150	-	-	-	-	-	-	-	-	-	-	-	-
	Out	150	-	-	-	-	-	-	-	-	-	-	-	_

LI 0962C50700 - Patriot Mods Army UNCLASSIFIED
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P-1 Line #17

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Exhibit P-3a, Individual Modification: PB 20		Date : May 2021				
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:				
lodification Item 18 of 23: Radar Digital Processor - Co	onfiguration (RDP-C	3)	•			
anufacturer Information						
anufacturer Name: Raytheon		Manufacturer Location: Andover, MA				
ministrative Leadtime (in Months): 8			Production Leadtime (in Months): 20			
Dates	F	Y 2020	FY 2021	FY 2022		
ontract Dates						
elivery Dates						
stallation Information						
			1.			
ethod of Implementation (Organic): Depot, PM Office	, contractor team (I	ncluded in unit cost)	Installation Quantity: 0			

LI 0962C50700 - Patriot Mods Army

Exhibit P-3a, Individual Modification: PB		Date: May 2021						
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10		P-1 Line Item 0962C50700 /	Number / Title: Patriot Mods	Modification Number / Title: C50700 / Patriot Mods				
ID Code (A=Service Ready, B=Not Service Ready):		1	MDAP/MAIS Code:					
Modification Item 19 of 23: Air Defense Artillery Sch	ool Upgrades/ TADSS	3	,					
Manufacturer Information								
Manufacturer Name: PM Office, contractor team			Manufacturer Location: Various					
Administrative Leadtime (in Months): 6			Production Leadtime (in Months): 18					
Dates	FY 2020		FY 2021 FY 2022					
Contract Dates								
Delivery Dates								
	Installation Information							
Method of Implementation (Organic): PM fielding team			Installation Quantity: 0					

LI 0962C50700 - Patriot Mods Army UNCLASSIFIED
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Exhibit P-3a, Individual Modification: PE	3 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget 2032A / 03 / 10		ne Item Number / Title: :50700 / Patriot Mods	Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):	1	MDAP/MAIS Code:	
Modification Item 20 of 23: Modern Manstation (MM	S)	<u>'</u>	
Manufacturer Information			
Manufacturer Name: Raytheon		Manufacturer Location: Andover, MA	
Administrative Leadtime (in Months): 6		Production Leadtime (in Months): 15	
Dates	FY 2020	FY 2021	FY 2022
Contract Dates			
Delivery Dates			
Installation Information			
	1.11 % 0	1.	
Method of Implementation (Organic): Various (Incl	uded in unit cost)	Inst	tallation Quantity: 0

LI 0962C50700 - Patriot Mods Army UNCLASSIFIED
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P-1 Line #17

Exhibit P-3a, Individual Modification: PB 2	2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget \$ 2032A / 03 / 10		em Number / Title: 0 / Patriot Mods	Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):	·	MDAP/MAIS Code:	
Modification Item 21 of 23: 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 2020	FY 2021	FY 2022
Contract Dates			
Delivery Dates			
Installation Information			
Method of Implementation (Organic): PM Office, Con	tractor Team (Included in unit cost)	Insta	ıllation Quantity: 0

LI 0962C50700 - Patriot Mods Army

Exhibit P-3a, Individual Modification: PB	2022 Army			Date : May 2021
Appropriation / Budget Activity / Budget 3 2032A / 03 / 10	Sub Activity:	P-1 Line Item Nu 0962C50700 / Pa		Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):		·	MDAP/MAIS Code:	
Modification Item 22 of 23: Assured PNT			·	
Manufacturer Information				
Manufacturer Name: Raytheon			Manufacturer Location: Tewksbury, MA	1
Administrative Leadtime (in Months): 4			Production Leadtime (in Months): 14	
Dates	l	FY 2020	FY 2021	FY 2022
Contract Dates				
Delivery Dates				
Installation Information				
Method of Implementation (Organic): Logistics Fieldi	ng Team (Included ir	n unit cost)	Ins	tallation Quantity: 0

LI 0962C50700 - Patriot Mods Army UNCLASSIFIED
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P-1 Line #17

Exhibit P-3a, Individual Modification: PB	2022 Army			Date: May 2021
Appropriation / Budget Activity / Budget 2032A / 03 / 10	Sub Activity:	P-1 Line Item Nu 0962C50700 / Pa		Modification Number / Title: C50700 / Patriot Mods
ID Code (A=Service Ready, B=Not Service Ready):			MDAP/MAIS Code:	
Modification Item 23 of 23: Test Detachment			·	
Manufacturer Information				
Manufacturer Name: Various			Manufacturer Location: Various	
Administrative Leadtime (in Months): 4			Production Leadtime (in Months): 8	
Dates	!	FY 2020	FY 2021	FY 2022
Contract Dates				
Delivery Dates				
Installation Information				
Method of Implementation (Organic): WSMR PM ow	ned test bed personr	nel	Installa	ation Quantity: 0

LI 0962C50700 - Patriot Mods Army

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1823CA6700 / ATACMS MODS

Modifications

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

Line Item MDAP/MAIS Code: N/A

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

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	918.977	80.320	214.524	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	918.977	80.320	214.524	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	918.977	80.320	214.524	-	-	-	-	-	-	-	-	-
(The following	Resource Sumr	mary rows are fo	r informational p	urposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)	Ŷ	÷		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	1,271.061	1,004.000	1,094.510	-	-	-	-	-	-	-	-	-

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	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	80.320	214.524	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	80.320	214.524	-	-	-	-	-	-	-

Justification:

There is no funding in FY 2022.

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P-1 Line #18

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	_		
Exhibit P-40, Budget Line Item Justification: PB	2022 Army		Date : May 2021
Appropriation / Budget Activity / Budget Sub Ac 2032A: Missile Procurement, Army / BA 03: Modific Modifications		P-1 Line Item N 1823CA6700 / A	Number / Title: 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 Defer defense missions, domestic emergency responses, and providi	nse Authorization Act (P.L. 110-181), the ng military support to civil authorities.	nis item is necessary for u	use by the active and reserve components of the Armed Forces for homeland

LI 1823CA6700 - ATACMS MODS Army

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1824C57701 / GMLRS MOD

Modifications

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

Line Item MDAP/MAIS Code: N/A

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	2	14	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	6.513	5.094	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	6.513	5.094	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	6.513	5.094	-	-	-	-	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Ti	ne corresponding	g budget request	s are documente	ed elsewhere.)	1			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	3,256.500	363.857	-	-	-	-	-	-	-	-	-	-

Description:

LI 1824C57701 - GMLRS MOD

FY 2021 funding totals include \$0.0M for Base and \$0.0M for Overseas Contingency Operations (OCO).

This effort shall be complete in FY 2020. No further funding is required.

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

The GMLRS Program currently consists of multiple variants: GMLRS Dual Purpose Improved Conventional Munition (DPICM) is a cluster munition that replaced the shorter range MLRS rockets to engage area or imprecisely located targets. GMLRS DPICM Production was terminated in response to the June 2008 Department of Defense (DoD) Cluster Munitions Policy. GMLRS Unitary 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 the same target sets as DPICM. GMLRS Unitary and AW are currently in full rate production.

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

Secondary	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	14	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.094	-	-	-	-	-	-	-	-
Total:	Quantity	14	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	5.094	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justificatio	n: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget S 2032A: Missile Procurement, Army / BA 03: M Modifications	Modification of Missiles / BSA 10:	P-1 Line Item Nu 1824C57701 / GN	MLRS MOD
D 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			
Justification: No funds are requested for FY 2021.			

LI 1824C57701 - GMLRS MOD Army

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

2684C20000 / Stinger Mods

Modifications

Program Elements for Code B Items: N/A Other Related Program Elements: 0203801A

Line Item MDAP/MAIS Code: N/A

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

Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	389.000	87.262	-	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	389.000	87.262	-	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	389.000	87.262	-	-	-	-	-	-	-	-	-	-
(The following	Resource Sumr	nary rows are fo	r informational p	ourposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)	Ť	*		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands,	120.396	53.865	-	-	-	-	-	-	-	-	-	-

Description:

The Stinger Block I missile is an advanced, fire-and-forget, short-range, man-portable, shoulder-fired and platform mounted guided missile system that provides the maneuver force and point defense assets air defense protection. Stinger's mission is to provide the force with low-altitude air defense against Fixed Wing (FW) and Rotary Wing (RW) Aircraft, Unmanned Aircraft Systems (UAS) and Cruise Missiles (CM). The Stinger missile is deployable from a variety of platforms that includes vehicles, helicopters, UAS and Man Portable Air Defense System (MANPADS). The missile is delivered as a certified round and requires no field testing or maintenance.

The Service Life Extension Program (SLEP) is ongoing at McAlester Army Ammunition Plant to replace aging key components in existing Block I missiles to extend the current shelf life providing a more viable asset to the Army's inventory. The addition of a Proximity Fuze (PROX) capability in FY 2019 provided improved effectiveness against UAS threats by eliminating the need for hit to kill.

Seconda	ry Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	40.754	-	-	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	=
	Total Obligation Authority	46.508	-	-	-	-	-	-	-	=
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	87.262	-	-	-	-	-	-	-	-

Justification:

The Stinger FY 2022 budget request is \$0.000 million.

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

LI 2684C20000 - Stinger Mods

Army

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P-1 Line #20

Exhibit P-40, Budget Line Item Justification	n: PB 2022 Army		Date: May 2021				
Appropriation / Budget Activity / Budget Su 2032A: Missile Procurement, Army / BA 03: M Modifications	ub Activity:	P-1 Line Item Number / Title: 2684C20000 / Stinger 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	·						
·							

LI 2684C20000 - Stinger Mods Army

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

2690CE8710 / AVENGER MODS

Modifications

Program Elements for Code B Items: N/A Other Related Program Elements: 0203801A

Line Item MDAP/MAIS Code: N/A

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

no ton more frame occasion.												
	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	192.317	14.107	13.942	11.227	-	11.227	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	192.317	14.107	13.942	11.227	-	11.227	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	192.317	14.107	13.942	11.227	-	11.227	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	127.955	143.949	53.830	-	-	-	-	-	-	-	-	-

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.

The Product Office will use FY 2022 funding to provide Systems Engineering Services, Program Management and Fielding support necessary to complete MOD-SLEP

	Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.894	4.791	3.823	-	3.823	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.213	9.151	7.404	-	7.404	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-

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P-1 Line #21

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

2690CE8710 / AVENGER MODS

Modifications

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203801A

Line Item MDAP/MAIS Code: N/A

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

				FY 2022	FY 2022	FY 2022				
Secondary	y Distribution	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondary Distribution	Total Obligation Authority	14.107	13.942	11.227	-	11.227	-	-	-	-

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LI 2690CE8710 - AVENGER MODS Army

P-1 Line #21

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

2690CE8710 / AVENGER MODS

Modifications

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203801A

Line Item MDAP/MAIS Code: N/A

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

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-3a	CE8710 / AVENGER MODS (Operational)		Α		- / 192.317	- / 14.107	- / 13.942	- / 11.227	- / -	- / 11.227
P-40	Total Gross/Weapon System Cost				- / 192.317	- / 14.107	- / 13.942	- / 11.227	- 1 -	- / 11.227

^{*}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 2022 procurement dollars in the amount of \$11.227 million provides Systems Engineering, Engineering Services, Program Management and Fielding support necessary to complete MOD-SLEP.

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 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS	Modification Number / Title: CE8710 / AVENGER MODS

2032A 1 03 1 10	2030CL0710	// AVENUER WOL	,0	CLO	OF TO FAVE NOCE (MODO		
ID Code (A=Service Ready, B=Not Service Ready): A	·	MD	AP/MAIS Code:	•			
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
Procurement Quantity (Units in Each)	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	192.317	14.107	13.942	11.227	-	11.227	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	192.317	14.107	13.942	11.227	-	11.227	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	192.317	14.107	13.942	11.227	-	11.227	
(The following Resource Summary rows are for informati	ional purposes only. The corre	sponding budget requests	are documented elsewhere	e.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)	127.955	143.949	53.830	-	-	_	

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) addresses obsolescence of five key Avenger components to ensure Avenger maintains operational capability through FY 2031.

The Vehicle Internal Communications System is a required subsystem that allows communication between the gunner and driver. It also interfaces with the IFF and missile electronics resulting in improved IFF capabilities. The digital VIC-5 replaces the analog VIC-1 that is currently fielded with the Avenger.

The Avenger Fire Control Computer (AFCC) is a required subsystem of the Avenger Slew-to-Cue system that processes and displays air tracks data to the gunner. The current AFCC is not supportable through FY 2031. The AFCC will undergo software and hardware upgrades that will enable the system to handle increased targeting capability realized with the latest version of the FAAD early warning system, ensure the system meets the latest Information Assurance (IA) requirements, and allow for future growth in areas such as improved fire control/longer range engagements.

The Mode 5 IFF is required to replace the Mode 4 IFF, in order to comply with Department of Defense standards. Incorporation of Mode 5 IFF into Avenger is critical to retaining the cooperative target identification capability, allowing Avenger to remain relevant and effective in Air Defense and Homeland Defense missions. Mode 5 IFF quantities above 453 also support the Stinger Man Portable Air Defense System Initiative.

Additional Obsolescence Mitigation Items, in various quantities, support 453 Avenger systems and include Avenger Organizational Maintenance Tool Kits, AN/PSM-95 Electronic Systems Test Sets and 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.

In prior years, the Avenger MODS program also addressed the Slew-to-Cue upgrade, Targeting Consoles (TC) and M3P .50 CAL machine guns.

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Exhibit P-3a, Individual Modification: PB 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:		Modification Number / Title:
2032A / 03 / 10	2690CE8710 / AVENGER MODS	CE8710 / AVENGER MODS

ID Code (A=Service Ready, B=Not	t Service Ready): A		MDAP/MAIS Code	ə:		
	Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	4.894	4.791	3.823	-	3.823
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	9.213	9.151	7.404	-	7.404
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	14.107	13.942	11.227	-	11.227

Exhibit P-3a, Individual Modification: PB 2022 Army **Date:** May 2021 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: CE8710 / AVENGER MODS 2690CE8710 / AVENGER MODS 2032A / 03 / 10 ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code: Models of Systems Affected: Avenger Basic and **Modification Type:** Operational Related RDT&E PEs: Slew-to-Cue Systems **Prior Years** FY 2020 FY 2021 FY 2022 Base **FY 2022 OCO** FY 2022 Total Qty (Each) I Qty (Each) I Qty (Each) I Total Cost (\$ M) Qty (Each) I Qty (Each) I Qty (Each) I **Financial Plan** Total Cost (\$ M) Procurement Modification Item 1 of 5: Prior Modifications

Modification Item 1 of 5: Prior Modifications						
A Kits						
Recurring						
Prior Year Modifications	466 / 67.153	- 1 -	- 1 -	- 1 -	- 1 -	- 1
Subtotal: Recurring	466 / 67.153	- / -	- / -	- / -	- / -	- /
Subtotal: Prior Modifications	466 / 67.153	- / -	- / -	- / -	- / -	- /
Modification Item 2 of 5: Vehicle Internal Communication (VIC-5)				·		
A Kits						
Recurring						
Hardware	454 / 4.327	- 1 -	- 1 -	- 1 -	- 1 -	- 1
Spares	- / 0.457	- 1 -	- 1 -	- 1 -	- 1 -	- 1
Engineering Services	- / 0.172	- 1 -	- / 0.163	- /0.110	- 1 -	- /0.
Systems Engineering / Program Management	- /2.711	- 1 -	- / 0.241	- / 0.230	- 1 -	- /0.2
Fielding	- 1 -	- 1 -	- /0.208	- /0.212	- 1 -	- /0.2
Subtotal: Recurring	454 / 7.667	- / -	- /0.612	- /0.552	- / -	- /0.5
B Kits						
Recurring						
Avenger to VIC 5 Cables	264 / 11.880	- 1 -	- 1 -	- 1 -	- 1 -	- 1
Spares	- /1.188	- 1 -	- 1 -	- 1 -	- 1 -	- 1
Engineering Services	- / 0.739	- 1 -	- / 0.446	- /0.302	- 1 -	- /0.3
Systems Engineering / Program Management	- /1.753	- 1 -	- / 0.662	- / 0.631	- 1 -	- /0.6
Fielding	- / 0.100	- 1 -	- /0.572	- / 0.583	- 1 -	- /0.5
Subtotal: Recurring	264 / 15.660	- / -	- /1.680	- /1.516	- / -	- /1.5
Subtotal: Vehicle Internal Communication (VIC-5)	718 / 23.327	- / -	- /2.292	- /2.068	- / -	- /2.0
Modification Item 3 of 5: Mode 5/Identification Friend or Foe					,	

LI 2690CE8710 - AVENGER MODS Army

A Kits Recurring

Equipment

Spares

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- 1 -

- 1 -

183 *l* 7.486

- / 0.749

301 / 44.603

- /4.459

P-1 Line #21

- 1 -

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- 1 -

- 1 -

- 1 -

- 1 -

Exhibit P-3a, Individual Modification: PB 2022 Army

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

Date: May 2021

Modification Number / Title:
2690CE8710 / AVENGER MODS

CE8710 / AVENGER MODS

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

Models of Systems Affected: Avenger Basic andModification Type: OperationalRelated RDT&E PEs:

Slew-to-Cue Systems

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Financial Plan	Qty (Each) I Total Cost (\$ M)					
Engineering Services	- /2.376	- /0.542	- <i>I</i> 1.957	- /1.278	- 1 -	- /1.27
System Engineering / Program Management	- <i>I</i> 11.282	- /1.479	- /2.903	- /2.669	- 1 -	- /2.66
Fielding	- / 0.020	- /0.015	- /2.508	- /2.463	- 1 -	- /2.46
Subtotal: Recurring	301 / 62.740	183 / 10.271	- /7.368	- /6.410	- / -	- /6.4
Non-Recurring						
Non-Recurring Production	- /10.197	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Subtotal: Non-Recurring	- /10.197	- / -	- / -	- / -	- / -	- / -
Subtotal: Mode 5/Identification Friend or Foe	301 / 72.937	183 / 10.271	- /7.368	- /6.410	- / -	- /6.4
Modification Item 4 of 5: Avenger Fire Control Computer	·		·			
A Kits						
Recurring						
Hardware	170 / 21.545	- 1 -	- 1 -	- 1 -	- 1 -	- 1
Spares	- /2.155	- 1 -	- 1 -	- 1 -	- 1 -	- 1
Engineering Services	- /1.639	- 1 -	- / 0.809	- / 0.548	- 1 -	- /0.5
Systems Engineering / Program Management	- /3.546	- 1 -	- <i>I</i> 1.201	- /1.145	- 1 -	- /1.1
Fielding	- / 0.015	- 1 -	- /1.037	- /1.056	- 1 -	- /1.0
Subtotal: Recurring	170 / 28.900	- / -	- /3.047	- /2.749	- / -	- /2.7
Subtotal: Avenger Fire Control Computer	170 / 28.900	- / -	- /3.047	- /2.749	- / -	- /2.7
Modification Item 5 of 5: Obsolescence Mitigation Items						
A Kits						
Recurring						
Hardware	- 1 -	37 / 3.836	169 / 0.606	- 1 -	- 1 -	- 1
Engineering Services	- 1 -	- 1 -	- / 0.167	- 1 -	- 1 -	- 1
Systems Engineering / Program Management	- 1 -	- 1 -	- / 0.248	- 1 -	- 1 -	- 1
Fielding	- 1 -	- 1 -	- / 0.214	- 1 -	- 1 -	- 1
Subtotal: Recurring	- / -	37 / 3.836	169 / 1.235	- / -	- / -	- /
Subtotal: Obsolescence Mitigation Items	- / -	37 / 3.836	169 / 1.235	- / -	- / -	- /
Subtotal: Procurement, All Modification Items	1,655 / 192.317	220 / 14.107	169 / 13.942	- /11.227	- / -	- /11.2
stallation						
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -

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P-1 Line #21

Exhibit P-3a, Individual Modification: Pl	3 2022 Army				Date: May 2021	
Appropriation / Budget Activity / Budge 2032A / 03 / 10	P-1 Line Item Numb 2690CE8710 / AVEN			Modification Number / Title: CE8710 / AVENGER MODS		
ID Code (A=Service Ready, B=Not Service Ready) : A			MDAP/MAIS Co	de:		
Models of Systems Affected: Avenger B Slew-to-Cue Systems	asic and Mo	odification Type: Operation	onal	Related RDT		
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)
Total						
Total Cost (Procurement + Support + Installation)	1:	92.317 14.107	13.942	11.227	-	11.227

Exhibit P-3a, Individual Modification: PE	3 2022 Army		Date: May 2021							
Appropriation / Budget Activity / Budge 2032A / 03 / 10	t Sub Activity:	P-1 Line Item Nur 2690CE8710 / AVI		Modification Number / Title: CE8710 / AVENGER MODS						
ID Code (A=Service Ready, B=Not Service Ready): A			MDAP/MAIS Code:							
Modification Item 1 of 5: Prior Modifications			,							
Manufacturer Information										
Manufacturer Name: Not Applicable			Manufacturer Location: Not Applicable							
Administrative Leadtime (in Months):			Production Leadtime (in Months):							
Dates	1	FY 2020	FY 2021	FY 2022						
Contract Dates										
Delivery Dates										
Installation Information										
Method of Implementation (Organic): Completed a	t Depot		Inst	allation Quantity: 466						

Exhibit P-3a, Individual Modification: PE	3 2022 Army		Date: May 2021							
Appropriation / Budget Activity / Budge 2032A / 03 / 10	t Sub Activity:	P-1 Line Item Num 2690CE8710 / AVE		Modification Number / Title: CE8710 / AVENGER MODS						
ID Code (A=Service Ready, B=Not Service Ready): A			MDAP/MAIS Code:	·						
Modification Item 2 of 5: Vehicle Internal Communic	cation (VIC-5)									
Manufacturer Information										
Manufacturer Name: Northrop Grumman			Manufacturer Location: Tobyhanna, PA							
Administrative Leadtime (in Months): 1			Production Leadtime (in Months): 9							
Dates	F	Y 2020	FY 2021	FY 2022						
Contract Dates										
Delivery Dates										
Installation Information										
Method of Implementation (Organic): Fielded by D	epot with Phase II kit		Inst	allation Quantity: 453						
· · · ·			· · · · · · · · · · · · · · · · · · ·							

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Exhibit P-3a, Individual Modification:	PB 2022 Army				Date: May 2021
Appropriation / Budget Activity / Bud 2032A / 03 / 10		Number / Title: / AVENGER MODS		Modification Number / Title: CE8710 / AVENGER MODS	
ID Code (A=Service Ready, B=Not Service Ready): A			MDAP/MAIS	Code:	
Modification Item 3 of 5: Mode 5/Identification Fi	riend or Foe				
Manufacturer Information					
Manufacturer Name: Raytheon			Manufacturer Location:	Largo, FL	
Administrative Leadtime (in Months): 4			Production Leadtime (ir	Months): 12	
Dates	FY	7 2020	F	Y 2021	FY 2022
Contract Dates		or 2020			
Delivery Dates	Ja	n 2023			
Installation Information					
				1	
Method of Implementation (Organic): Fielded by	y Depot with Phase II kit			Installation	Quantity: 453

Exhibit P-3a, Individual Modification: PE	3 2022 Army		Date: May 2021			
Appropriation / Budget Activity / Budge 2032A / 03 / 10	t Sub Activity:	P-1 Line Item Nun 2690CE8710 / AVE		Modification Number / Title: CE8710 / AVENGER MODS		
ID Code (A=Service Ready, B=Not Service Ready): A		·	MDAP/MAIS Code:			
Modification Item 4 of 5: Avenger Fire Control Com	puter					
Manufacturer Information						
Manufacturer Name: Boeing			Manufacturer Location: Huntsville, AL			
Administrative Leadtime (in Months): 1			Production Leadtime (in Months): 9			
Dates		FY 2020	FY 2021	FY 2022		
Contract Dates						
Delivery Dates						
Installation Information						
Method of Implementation (Organic): Fielded by D	epot with Phase II kit		Ins	stallation Quantity: 169		
			•			

	Number / Title: / AVENGER MODS MDAP/MAIS Code:	Date: May 2021 Modification Number / Title: CE8710 / AVENGER MODS
	/ AVENGER MODS	
	MDAP/MAIS Code:	·
	Manufacturer Location: Varies	
	Production Leadtime (in Months): 6	
FY 2020	FY 2021	FY 2022
Jul 2020	Jul 2021	
Jul 2021	Jul 2022	
	Inst	allation Quantity: 169
	Jul 2020	Production Leadtime (in Months): 6 FY 2020 FY 2021 Jul 2020 Jul 2021 Jul 2022

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

3972C61700 / ITAS/TOW Mods

Modifications

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

Line Item MDAP/MAIS Code: N/A

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,795.993	3.469	5.666	4.561	-	4.561	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,795.993	3.469	5.666	4.561	-	4.561	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,795.993	3.469	5.666	4.561	-	4.561	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	n budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	44,899.825	173.450	153.135	-	-	-	-	-	-	-	-	-

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	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.469	3.166	4.561	-	4.561	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	2.500	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	3.469	5.666	4.561	-	4.561	-	-	-	-

Justification:

FY2022 funding totals include \$4.561 Million in Base to procure 10 Precision Far Target Location (PFTL) Kits and non-recurring engineering and procurement of 28 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

LI 3972C61700 - ITAS/TOW Mods

Army

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P-1 Line #22

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Exhibit P-40, Budget Line Item Justification: PB	2022 Army		Date : May 2021			
Appropriation / Budget Activity / Budget Sub Ac 2032A: Missile Procurement, Army / BA 03: Modifications		P-1 Line Item Number / Title: 3972C61700 / ITAS/TOW Mods				
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code I	3 Items: N/A	Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A	,					
			ne IBCTs. The LBB incorporates increased safety features and a newly designed installation and program management cost for this procurement.			
In accordance with Section 1815 of the FY 2008 National Defen defense missions, domestic emergency responses, and providir		is item is necessary for	use by the active and reserve components of the Armed Forces for homeland			

LI 3972C61700 - ITAS/TOW Mods Army

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6552C67500 / MLRS Mods

Modifications

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,062.635	372.550	330.419	273.856	-	273.856	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,062.635	372.550	330.419	273.856	-	273.856	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,062.635	372.550	330.419	273.856	-	273.856	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	budget requests	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	20,049.717	9,086.585	8,260.475	9,128.533	-	9,128.533	-	-	-	-	-	-

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 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 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 225 M270A1 launchers to the M270A2 configuration. The end state is 367 MLRS launchers with Improved Armored Cabs (IAC), Bradley commonality improvements, 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 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 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. Integration of the IAC is performed by RRAD under a Public Private Partnership as part of the MLRS Fleet Expansion effort.

The current Army Acquisition Objective is 225 MLRS launchers. The end state Army Acquisition Objective after Fleet Expansion will be 367 M270A2 MLRS launchers.

LI 6552C67500 - MLRS Mods

Army

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Page 1 of 10

P-1 Line #23

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6552C67500 / MLRS Mods

Modifications

Other Related Program Elements: 0603778A

Line Item MDAP/MAIS Code: N/A

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

Seconda	ary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	372.550	118.027	273.856	-	273.856	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	212.392	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	372.550	330.419	273.856	-	273.856	-	-	-	-

Program Elements for Code B Items: N/A

LI 6552C67500 - MLRS Mods Army

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6552C67500 / MLRS Mods

Modifications

Program Elements for Code B Items: N/A

Other Related Program Elements: 0603778A

Line Item MDAP/MAIS Code: N/A

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

Exhibits Schedule					Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-3a	C67500 / MLRS Mods (.)				- / 1,062.635	- / 372.550	- / 330.419	- / 273.856	- / -	- / 273.856
P-40	Total Gross/Weapon System Cost				- / 1,062.635	- / 372.550	- / 330.419	- / 273.856	- 1 -	- / 273.856

^{*}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:

FY2022 procurement dollars support \$273.856M Base, \$0.000M Direct War, and \$0.000M Enduring costs.

FY 2022 procurement dollars in the amount of \$273.856 million procures 30 M270A2 MLRS launchers and 35 Improved Armored Cabs. Supports MLRS Fleet Expansion (Mod 1) of 26 MLRS launchers from M270A0 configuration to M270A2 configuration and completes the nonrecurring engineering obsolescence effort of the launcher chassis design. Supports MLRS Fleet Upgrade (Mod 2) of 4 MLRS launchers from M270A1 configuration to M270A2 configuration. Procures 35 Improved Armored Cabs (Mod 3).

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.

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 LI 6552C67500 - MLRS Mods Page 3 of 10 Army

Exhibit P-3a, Individual Modification: PB 2022 Army	Date: May 2021	
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 O. I.	MDAD/MAIO O. J	

2002/17 007 10	000200700	o / IVILI (O IVIOGS		GOT GOOT MET CO MIGGS					
ID Code (A=Service Ready, B=Not Service Ready):	·	I	MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total			
Procurement Quantity (Units in Each)	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	1,062.635	372.5	330.419	273.856	-	273.856			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	1,062.635	372.5	50 330.419	273.856	-	273.856			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	1,062.635	372.5	330.419	273.856	-	273.856			
(The following Resource Summary rows are for informati	onal purposes only. The corre	esponding budget requ	ests are documented elsewhe	re.)					
Initial Spares (\$ in Millions)	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Thousands)	20,049.717	9,086.58	8,260.475	9,128.533	-	9,128.533			

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 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 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 225 M270A1 launchers to the M270A2 configuration. The end state is 367 MLRS launchers with Improved Armored Cabs (IAC), Bradley commonality improvements, 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 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 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. Integration of the IAC is performed by RRAD under a Public Private Partnership as part of the MLRS Fleet Expansion effort.

The current Army Acquisition Objective is 225 MLRS launchers. The end state Army Acquisition Objective after Fleet Expansion will be 367 M270A2 MLRS launchers.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	372.550	118.027	273.856	-	273.856
ANG	Quantity	-	-	-	-	-

LI 6552C67500 - MLRS Mods

Army

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P-1 Line #23

Exhibit P-3a, Individual Modification: PB 2022 Army				Date: May 2021	
Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10	P-1 Line Item Number / 6552C67500 / MLRS Mod			Modification Numbe C67500 / MLRS Mods	
ID Code (A=Service Ready, B=Not Service Ready):		MDAP/MAIS Code	e:		
			EV 2022	EV 2022	EV 2022

ID Odde (A-Service Ready, B-Not Service Rea	uy).		MDAI /MAIO COde.				
Seconda	ry Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	
	Total Obligation Authority	-	212.392	-	-	-	
Total:	Quantity	-	-	-	-	-	
Secondary Distribution	Total Obligation Authority	372.550	330.419	273.856	-	273.856	

UNCLASSIFIED LI 6552C67500 - MLRS Mods Army

Exhibit P-3a, Individual Modification: PB 2022 Army **Date: May 2021** Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: **Modification Number / Title:** 6552C67500 / MLRS Mods C67500 / MLRS Mods 2032A / 03 / 10 ID Code (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code: Related RDT&E PEs: Models of Systems Affected: M270A1 **Modification Type: Prior Years** FY 2020 FY 2021 **FY 2022 Base FY 2022 OCO** FY 2022 Total Qty (Each) I **Financial Plan** Total Cost (\$ M) **Procurement** Modification Item 1 of 3: MLRS Fleet Expansion A Kits Recurring Obsolescence Mitigation (inactive) - /468.710 - 1 -- 1 -- 1 -- 1 -- 1 -System Engineering Program Management - /31.265 - / 16.244 - / 16.525 - / 10.481 - 1 -- / 10.481 - / 18.413 - /25.526 - / 16.383 - 17.988 - 1 -- 17.988 Transmissions and Engines M270A2 Launcher Fleet Expansion 53 / 351.606 41 / 271.493 40 / 249.978 26 / 162.329 - / -26 / 162.329 - /8.822 - /8.822 Fieldina - / -- 1 -- 1 -- / -Training - 1 -- 1 -- 1 -- /4.057 - 1 -- /4.057 53 / 869.994 41 / 313.263 40 / 282.886 26 / 193.677 - / -26 / 193.677 Subtotal: Recurring Non-Recurring Obsolescence Mitigation Bradley Chassis - /38.822 - 1 -- /7.871 - /6.645 - 1 -- /6.645 Obsolescence Mitigation Fire Control Sys - /27.091 - 1 -- 1 -- /1.296 - 1 -- I 1.296 Launcher Risk Reduction - *I* 17.417 - 1 -- 1 -- 1 -- / -- 1 -Government Testing - / 0.923 - / 0.460 - /2.627 - / 0.865 - 1 -- / 0.865 Initial Spares - 17.059 - *I* 14.470 - /8.172 - 1 -- 1 -- 1 -Training - 1 -- /6.693 - 1 -- 1 -- 1 -- *I* 1.909 - /8.806 Subtotal: Non-Recurring - /93.221 - /14.930 - / 25.363 - /8.806 - / -53 / 963.215 41 / 328.193 40 / 308.249 26 / 202.483 - / -26 / 202.483 Subtotal: MLRS Fleet Expansion Modification Item 2 of 3: MLRS Fleet Upgrade A Kits Recurring System Engineering Program Management - / -- 1 -- / -- /5.448 - / -- /5.448 - 1 -- 1 -- 1 -Transmissions and Engines - 1 -- 14.025 - 14.025 M270A2 Launcher Upgrade - 1 -- 1 -- 1 -4 / 25.221 - 1 -4 / 25.221 - 1 -Fielding - 1 -- 1 -- /3.202 - 1 -- /3.202 Training - 1 -- 1 -- 1 -- I 1.299 - 1 -- *l* 1.299 - / -4/39.195 - / -4/39.195 - / -- / -Subtotal: Recurring Non-Recurring Obsolescence Mitigation Bradley Chassis - 1 -- 1 -- 1 -- / 0.928 - 1 -- / 0.928

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- 1 -

- 1 -

- 1 -

- 1 -

191

- / 0.199

- / 0.133

- 1 -

- 1 -

Obsolescence Mitigation Fire Control Sys

Government Testing

- / 0.199

- / 0.133

- 1 -

- 1 -

Exhibit P-3a, Individual Modification: PE	3 2022 Army				Date: May 2021	
Appropriation / Budget Activity / Budge 2032A / 03 / 10	t Sub Activity:	P-1 Line Item Numb 6552C67500 / MLRS			Modification Numb C67500 / MLRS Mod	
ID Code (A=Service Ready, B=Not Service Ready):			MDAP/MAIS Co	ode:		
Models of Systems Affected: M270A1	Modif	ication Type: .		Related RDT	&E PEs:	
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)
Subtotal: Non-Recurring	- / -	- / -	- / -	- /1.260	- / -	- /1.260
Subtotal: MLRS Fleet Upgrade	- / -	- / -	- / -	4 / 40.455	- / -	4 / 40.455
Modification Item 3 of 3: Improved Armored Cab (IAC)						,
A Kits						
Recurring						
Production	102 / 99.420	51 / 44.357	26 <i>l</i> 22.170	30 / 26.567	- 1 -	30 / 26.567
IAC Spares	- 1 -	- 1 -	- 1 -	5 / 4.351	- 1 -	5 / 4.351
Subtotal: Recurring	102 / 99.420	51 / 44.357	26 / 22.170	35 / 30.918	- / -	35 / 30.918
Subtotal: Improved Armored Cab (IAC)	102 / 99.420	51 / 44.357	26 / 22.170	35 / 30.918	- / -	35 / 30.918
Subtotal: Procurement, All Modification Items	155 / 1,062.635	92 / 372.550	66 / 330.419	65 / 273.856	- / -	65 / 273.856
Installation						
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -

372.550

330.419

1,062.635

Total Cost (Procurement + Support + Installation)

273.856

273.856

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Exhibit P-3a, Individual Modification: PB 2	022 Army		Date : May 2021
Appropriation / Budget Activity / Budget S 2032A / 03 / 10		n Number / Title: / MLRS Mods	Modification Number / Title: C67500 / MLRS Mods
ID Code (A=Service Ready, B=Not Service Ready):		MDAP/MAIS Code:	
Modification Item 1 of 3: MLRS Fleet Expansion			
Manufacturer Information			
Manufacturer Name: Lockheed Martin Missiles & Fire Co	ontrol	Manufacturer Location: Camden, AR	
Administrative Leadtime (in Months): 3		Production Leadtime (in Months): 28	
Dates	FY 2020	FY 2022	
Contract Dates	Jun 2020	Apr 2021	Apr 2022
Delivery Dates	Sep 2022	Sep 2023	Aug 2024
Installation Information			
Method of Implementation (Organic): Field Artillery La	aunchers Product Office	Installa	ntion Quantity: 0

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Exhibit P-3a, Individual Modification: PB 202	22 Army			Date: May 2021
Appropriation / Budget Activity / Budget Sul 2032A / 03 / 10		P-1 Line Item Numb 6552C67500 / MLRS		Modification Number / Title: C67500 / MLRS Mods
D Code (A=Service Ready, B=Not Service Ready):	-		MDAP/MAIS Code:	1
Modification Item 2 of 3: MLRS Fleet Upgrade			-	
lanufacturer Information				
lanufacturer Name: Lockheed Martin Missiles & Fire Cont	rol		Manufacturer Location: Camden, AR	
dministrative Leadtime (in Months): 3			Production Leadtime (in Months): 28	
Dates	FY 20)20	FY 2021	FY 2022
ontract Dates				Apr 2022
elivery Dates				Dec 2024
nstallation Information				
Method of Implementation (Organic): Field Artillery Laur	sphere Braduet Office		Instal	lation Quantity: 0
ethod of implementation (organic). Field Artiflery Edul	chers i roddet Office		motar	ation educate.

LI 6552C67500 - MLRS Mods Army

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Exhibit P-3a, Individual Modification: PE	3 2022 Army		Date: May 2021
Appropriation / Budget Activity / Budget 2032A / 03 / 10	t Sub Activity: P-1 Line		Modification Number / Title: C67500 / MLRS Mods
ID Code (A=Service Ready, B=Not Service Ready):		MDAP/MAIS Code:	
Modification Item 3 of 3: Improved Armored Cab (IA	AC)	'	
Manufacturer Information			
Manufacturer Name: Loc Performance Products, LLC	;	Manufacturer Location: Plymouth, M	II
Administrative Leadtime (in Months): 3		Production Leadtime (in Months): 21	
Dates	FY 2020	y: P-1 Line Item Number / Title: Modification Num 6552C67500 / MLRS Mods MDAP/MAIS Code: Manufacturer Location: Plymouth, MI Production Leadtime (in Months): 21 FY 2020 FY 2021 Jun 2020 May 2021	FY 2022
Contract Dates	Jun 2020	May 2021	May 2022
Delivery Dates	May 2022	May 2023	May 2024
Installation Information			
Method of Implementation (Organic): Depot			Installation Quantity: 0

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6580C67501 / HIMARS Modifications

Modifications

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210600A, 0603778A,

0210608A

Line Item MDAP/MAIS Code: N/A

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

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	=	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	245.250	12.483	6.081	7.192	-	7.192	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	245.250	12.483	6.081	7.192	-	7.192	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	245.250	12.483	6.081	7.192	-	7.192	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	3,554.348	312.075	276.409	326.909	-	326.909	-	-	-	-	-	-

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 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-Unitary (GMLRS-U), GMLRS Alternative Warhead, the Army Tactical Missile System (ATACMS) and future MFOM to include the Extended Range (ER) GMLRS, and the Precision Strike Missile (PrSM).

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.

The Army currently has 363 HIMARS launchers on hand and is increasing the Army Acquisition Objective to 547 to support the Army Structure Memorandum 2022-2026 decision.

	Secondary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	12.483	1.789	2.091	-	2.091	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	4.292	5.101	-	5.101	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6580C67501 / HIMARS Modifications

Modifications

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

Program

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210600A, 0603778A,

0210608A

Line Item MDAP/MAIS Code: N/A

Se	condary Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Secondary Distrib	ution Total Obligation Authority	12.483	6.081	7.192	-	7.192	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

6580C67501 / HIMARS Modifications

Modifications

Program Elements for Code B Items: N/A

Other Related Program Elements: 0210600A, 0603778A,

Date: May 2021

0210608A

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-3a	C67501 / HIMARS Modifications (Operational, Reliability, Safety, Crew Survivability)				- / 245.250	- / 12.483	- /6.081	- /7.192	- / -	- /7.192
P-40	Total Gross/Weapon System Cost				- / 245.250	- / 12.483	- / 6.081	- /7.192	- 1 -	- / 7.192

^{*}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:

FY2022 procurement dollars support \$7.192M Base, \$0.000M Direct War, and \$0.000M Enduring costs.

FY2022 Base procurement dollars in the amount of \$7.192 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. Base procurement dollars will also incorporate modifications to the HIMARS launcher to meet the current and evolving threat.

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 2022 Army		Date : May 2021
	P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications	Modification Number / Title: C67501 / HIMARS Modifications

2032A 1 03 1 10	030000730	I I I IIIVIANS IVIOUIIIC	alions	007.	SULL LINNARS MOC	illications
ID Code (A=Service Ready, B=Not Service Ready):	·	MD	AP/MAIS Code:	•		
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	245.250	12.483	6.081	7.192	-	7.192
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	245.250	12.483	6.081	7.192	-	7.192
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	245.250	12.483	6.081	7.192	-	7.192
(The following Resource Summary rows are for informat	ional purposes only. The corre	esponding budget requests	are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	3,554.348	312.075	276.409	326.909	-	326.909

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 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-Unitary (GMLRS-U), GMLRS Alternative Warhead, the Army Tactical Missile System (ATACMS) and future MFOM to include the Extended Range (ER) GMLRS, and the Precision Strike Missile (PrSM).

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.

The Army currently has 363 HIMARS launchers on hand and is increasing the Army Acquisition Objective to 547 to support the Army Structure Memorandum 2022-2026 decision.

Seconda	ry Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	12.483	1.789	2.091	-	2.091
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	4.292	5.101	-	5.101
Total:	Quantity	-	-	-	=	=
Secondary Distribution	Total Obligation Authority	12.483	6.081	7.192	-	7.192

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Exhibit P-3a, Individual Modification: Pl	B 2022 Army					Date: May 2021			
Appropriation / Budget Activity / Budge 2032A / 03 / 10	et Sub Activity:	I	7-1 Line Item Numbe 580C67501 / HIMAR			Modification Number C67501 / HIMARS Mo			
ID Code (A=Service Ready, B=Not Service Ready):				MDAP/MAIS Cod	e:				
Models of Systems Affected: M142 High Artillery Rocket System	•		ation Type: Operation	nal, Reliability, Safety,	Related RDT	C&E PEs:			
	Prior Years		FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total		
Financial Plan	Qty (Each) I Total Cost (\$ M)		Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)		
Procurement				·					
Modification Item 1 of 1: M142 Mods									
A Kits									
Recurring									
Program Management	-	<i>I</i> 2.618	- /1.353	- /1.262	- /1.493	- 1 -	- /1.4		
Obsolescence Mitigation	- 1	232.205	- /5.930	- /2.552	- /3.440	- 1 -	- /3.4		
Industrial Facilities	-	<i>l</i> 1.414	- 10.729	- / 0.356	- 1 -	- 1 -	- 1 -		
Peculiar Support Equipment	-	/ 0.354	- / 0.183	- /0.089	- /0.105	- 1 -	- /0.10		
Training	-	<i>l</i> 1.336	- / 0.689	- /0.336	- /0.397	- 1 -	- /0.39		
Test & Evaluation (Acceptance Testing)	-	12.424	- <i>I</i> 1.249	- / 0.609	- /0.720	- 1 -	- 10.72		
Systems Engineering		<i>I</i> 4.899	- /2.350	- /0.877	- /1.037	- 1 -	- /1.03		
Subtotal: Recurring	- /	245.250	- /12.483	- /6.081	- /7.192	- / -	- /7.19		
Subtotal: M142 Mods	- /	245.250	- /12.483	- /6.081	- /7.192	- / -	- /7.19		
Subtotal: Procurement, All Modification Items	- /	245.250	- /12.483	- /6.081	- /7.192	- / -	- /7.19		
Installation									
Subtotal: Installation		- / -	- / -	- / -	- / -	- / -	- / -		
Total									
Total Cost (Procurement + Support + Installation)		245.250	12.483	6.081	7.192	-	7.19		

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LI 6580C67501 - HIMARS Modifications Army

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Exhibit P-3a, Individual Modification: PE	3 2022 Army			Date : May 2021				
Appropriation / Budget Activity / Budge 2032A / 03 / 10	t Sub Activity:	P-1 Line Item Num 6580C67501 / HIM/		Modification Number / Title: C67501 / HIMARS Modifications				
ID Code (A=Service Ready, B=Not Service Ready):		1	MDAP/MAIS Code:					
Modification Item 1 of 1: M142 Mods								
Manufacturer Information								
Manufacturer Name: Strategic and Operational Rock	et & Missiles Project Of	fice	Manufacturer Location: Redstone Arser	nal, AL				
Administrative Leadtime (in Months):			Production Leadtime (in Months):):				
Dates	F	Y 2020	FY 2021	FY 2022				
Contract Dates								
Delivery Dates								
Installation Information								
Method of Implementation (Organic): Field Artillery	Launchers Product Of	fice	Inst	tallation Quantity: 0				

LI 6580C67501 - HIMARS Modifications Army

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1242CA0250 / Spares And Repair Parts

Spares And Repair Parts

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	357.519	26.444	5.090	5.019	-	5.019	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	357.519	26.444	5.090	5.019	-	5.019	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	357.519	26.444	5.090	5.019	-	5.019	-	-	-	-	-	-
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request:	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY 2022 funds provide for the procurement of spares to support initial fielding of new or modified end items.

The FY 2022 funding request was reduced by \$1.07 million to account for the availability of prior year execution balances.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	26.444	5.090	5.019	-	5.019	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	26.444	5.090	5.019	-	5.019	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2022 Army

Date: May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

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

1242CA0250 / Spares And Repair Parts

Spares And Repair Parts

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	CA0267 / PATRIOT MODIFICATION INITIAL SPARES				- / 357.519	- / 26.444	- /5.090	- /5.019	- / -	- / 5.019
P-40	Total Gross/Weapon System Cost				- / 357.519	- / 26.444	- / 5.090	- / 5.019	- 1 -	- / 5.019

^{*}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:

FY2022 procurement dollars in the amount of \$5.019 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	s: PB 20	22 Army										I	Date: M	ay 2021			
Appropriation / E 2032A / 04 / 10	Budget A	ctivity /	Budget	Sub Acti	vity:	l l	Line Item 2CA0250				S			CA0267	mber / T / PATRI SPARES	OT MOI	DIC]: DIFICATION	NC
ID Code (A=Service Rea	dy, B=Not Serv	ice Ready):							ME	DAP/MAIS	Code:							
·	Resource	Summ	ary		F	Prior Ye	ars	FY 20	20	FY	2021	FY 2	2022 Bas	e F	Y 2022 C	ОСО	FY 2022	Total
Procurement Quantity (Ur							-		_					-		-		
Gross/Weapon System C	ost (\$ in Millior	ns)					357.519		26.444		5.0	90	5	5.019		-		5.0
Less PY Advance Procur	ement (\$ in Mi	llions)					-		_					-		-		_
Net Procurement (P-1) (\$	in Millions)						357.519		26.444		5.0	90	5	5.019		-		5.0
Plus CY Advance Procure	ement (\$ in Mil	lions)					-		_					-		-		_
Total Obligation Author	ty (\$ in Millions	s)					357.519		26.444		5.0	90	5	5.019		-		5.01
(7	he following i	Resource S	ummary row	s are for info	rmational pu	rposes only	y. The corres	ponding bud	get request	s are docum	ented elsew	here.)				· ·		
Initial Spares (\$ in Millions)							-		-					-		-		-
Gross/Weapon System U	nit Cost (\$ in	Thousands)					-		-					-		-		-
Note: Subtotals or Totals	in this Evhibit	P-5 may n	ot he evact o		v due to rou	nding												
140tc. Gubtotals of Totals		Prior Year		T Sum Cxucu	FY 2020	FY 2021			F۱	′ 2022 Ba	ΕΑ.	ΕV	2022 OC	20	F	FY 2022 Total		
	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost		Total Cost
Cost Elements	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)
Hardware Cost																		
Non Recurring Cost CA0267 / PATRIOT																		
MODIFICATION INITIAL SPARES	-	-	357.519	-	-	26,444						5.019	-	-	_	_	-	5.0
						20.444	-	-	5.090	-	-							
Subtotal: Non Recurring Cost	-	-	357.519	-	-	26.444		-	5.090	-	-	5.019	-	-	-	-	-	5.0
Subtotal: Non Recurring	-	-	357.519 357.519	-	-		-					5.019 5.019	-	-	-	-	-	5.0 5.0
Subtotal: Non Recurring Cost	-					26.444	-	-	5.090	-	-		- -	-		-	-	
Subtotal: Non Recurring Cost Subtotal: Hardware Cost Gross/Weapon System	-	-	357.519 357.519	-	-	26.444 26.444	-		5.090 5.090	-	- -	5.019	- 022	-		-	FY 202	5.0
Subtotal: Non Recurring Cost Subtotal: Hardware Cost Gross/Weapon System Cost	-	ondary D	357.519	-	-	26.444 26.444	-	-	5.090 5.090 5.090	-	- -	5.019 5.019	- 022	-	- - FY 2022	-	FY 202	5.0
Subtotal: Non Recurring Cost Subtotal: Hardware Cost Gross/Weapon System Cost	-	ondary D	357.519 357.519 stribution	-	-	26.444 26.444	-	2020	5.090 5.090 5.090	-	-	5.019 5.019	- 022 se	-	- - FY 2022	-	FY 202	5.0
Subtotal: Non Recurring Cost Subtotal: Hardware Cost Gross/Weapon System	-	ondary D	357.519 357.519 stribution	-	-	26.444 26.444	-	2020	5.090 5.090 5.090	-	-	5.019 5.019		-	- - FY 2022	-	FY 202	5.0

LI 1242CA0250 - Spares And Repair Parts Army

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA | 1242C93000 / Air Defense Targets

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

	Prior			FY 2022	FY 2022	FY 2022					То	
Resource Summary	Years	FY 2020	FY 2021	Base	oco	Total	FY 2023	FY 2024	FY 2025	FY 2026	Complete	Total
Procurement Quantity (Units in Each)	788	500	538	666	-	666	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	447.499	10.593	8.978	10.618	-	10.618	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	447.499	10.593	8.978	10.618	-	10.618	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	447.499	10.593	8.978	10.618	-	10.618	-	-	-	-	-	-
(The following	Resource Sumr	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	1			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	567.892	21.186	16.688	15.943	-	15.943	-	-	-	-	-	-

Description:

Air Defense Artillery (ADA) Targets program procures target hardware and associated training services to include scoring, payload, and ground support equipment to enable Air Defense Artillery Soldiers and units to conduct required training. This training consists of Department of the Army Pamphlet (DA PAM) 350-38 (Standards in Training Commission) required gunnery tables and aerial target tracking, training, and scoring. Target systems are also available to support collective training exercises and Force Development Testing and Experimentation (FDT&E) investigations of engagement techniques for small unmanned aircraft systems.

Secondar	y Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026
Army	Quantity	500	538	666	-	666	-	-	-	-
	Total Obligation Authority	10.593	8.978	10.618	-	10.618	-	-	-	-
Total:	Quantity	500	538	666	-	666	-	-	-	-
Secondary Distribution	Total Obligation Authority	10.593	8.978	10.618	-	10.618	-	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2022 Army **Date:** May 2021

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA | 1242C93000 / Air Defense Targets

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	C93000 / Air Defense Targets	P-5a			788 / 447.499	500 / 10.593	538 / 8.978	666 / 10.618	- / -	666 / 10.618
P-40	Total Gross/Weapon System Cost				788 / 447.499	500 / 10.593	538 / 8.978	666 / 10.618	- 1 -	666 / 10.618

^{*}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 2022 Base procurement dollars in the amount of \$10.618 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 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 2022 Army

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

Date: May 2021

Item Number / Title [DODIC]:
1242C93000 / Air Defense Targets

C93000 / Air Defense Targets

MDAP/MAIS Code:

, , , , , , , , , , , , , , , , , , , ,						
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Procurement Quantity (Units in Each)	788	500	538	666	-	666
Gross/Weapon System Cost (\$ in Millions)	447.499	10.593	8.978	10.618	-	10.618
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	447.499	10.593	8.978	10.618	-	10.618
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	447.499	10.593	8.978	10.618	-	10.618
(The following Resource Summary rows are for informati	onal purposes only. The cor	responding budget request	s are documented elsewher	re.)		1
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	567 892	21 186	16 688	15 943	_	15 943

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

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

	F	Prior Years	;		FY 2020			FY 2021		FY	/ 2022 Bas	se	F	Y 2022 OC	0	FY 2022 Total		
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost	_																	
Remotely Piloted Vehicle Target (RPVT) ^(†)	369.992	1,183	437.701	6.962	394	2.743	7.185	538	3.866	6.683	666	4.451	-	-	-	6.683	666	4.451
Infrared Kit Payload ^(†)	0.292	1,182	0.345	0.332	394	0.131	0.341	538	0.183	0.335	666	0.223	-	-	-	0.335	666	0.223
Launcher ^(†)	28.273	11	0.311	31.000	5	0.155	32.000	1	0.032	33.200	5	0.166	-	-	-	33.200	5	0.166
Manual Navigation GCS ^(†)	11.143	28	0.312	12.214	14	0.171	12.600	5	0.063	12.000	5	0.060	-	-	-	12.000	5	0.060
BVR Navigation GCS ^(†)	28.875	8	0.231	31.750	4	0.127	32.700	10	0.327	33.500	10	0.335	-	-	-	33.500	10	0.335
BVR Payload ^(†)	12.544	68	0.853	14.100	20	0.282	14.519	27	0.392	15.800	65	1.027	-	-	-	15.800	65	1.027
Acoustic Scoring Payload ^(†)	13.513	78	1.054	13.786	28	0.386	14.200	50	0.710	15.000	55	0.825	-	-	-	15.000	55	0.825
Acoustic Scoring GCS ^(†)	45.529	17	0.774	49.222	9	0.443	51.000	2	0.102	50.000	2	0.100	-	-	-	50.000	2	0.100
Radar Scoring Payload ^(†)	17.825	40	0.713	19.300	20	0.386	20.000	40	0.800	22.400	55	1.232	-	-	-	22.400	55	1.232
Radar Scoring GCS ^(†)	17.000	1	0.017	18.000	1	0.018	18.500	2	0.037	18.000	2	0.036	-	-	-	18.000	2	0.036
RPVT Lighting Kit Payload ^(†)	0.299	87	0.026	0.323	31	0.010	0.333	45	0.015	0.260	100	0.026	-	-	-	0.260	100	0.026
Program Management Support	1,607.333	3	4.822	1,815.000	1	1.815	2,132.000	1	2.132	1,792.000	1	1.792	-	-	-	1,792.000	1	1.792

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P-1 Line #26

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Exhibit P-5, Cost Analysis: PB 2022 Army

Date: May 2021

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:

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

	F	Prior Years	3		FY 2020			FY 2021		FY	/ 2022 Bas	se	F	Y 2022 OC	0	F	/ 2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Smoke Generator Payload ^(†)	0.339	53	0.018	-	-	-	0.500	30	0.015	0.500	30	0.015	-	-	-	0.500	30	0.015
Over the Horizon BVR Payload ^(†)	23.000	14	0.322	-	-	-	20.000	15	0.300	22.000	15	0.330	-	-	-	22.000	15	0.330
Subtotal: Recurring Cost	-	-	447.499	-	-	6.667	-	-	8.974	-	-	10.618	-	-	-	-	-	10.618
Subtotal: Flyaway Cost	-	-	447.499	-	-	6.667	-	-	8.974	-	-	10.618	-	-	-	-	-	10.618
Software Cost					,													
Recurring Cost																		
Technical Refresh - Windows OS Update	-	-	-	3,926.000	1	3.926	4.000	1	0.004	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	3.926	-	-	0.004	-	-	-	-	-	-	-	-	-
Subtotal: Software Cost	-	-	-	-	-	3.926	-	-	0.004	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	567.892	788	447.499	21.186	500	10.593	16.688	538	8.978	15.943	666	10.618	-	-	-	15.943	666	10.618

Remarks:

FY 2020 increase in unit cost for Windows Operating System upgrade, which is necessary to maintain the system's authority to operate.

Seconda	ry Distribution	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Army	Quantity	500	538	666	-	666
	Total Obligation Authority	10.593	8.978	10.618	-	10.618
Total:	Quantity	500	538	666	-	666
Secondary Distribution	Total Obligation Authority	10.593	8.978	10.618	-	10.618

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]:

2032A / 05 / 10 1242C93000 / Air Defense Targets C93000 / Air Defense Targets

2032A / 05 / 10			12	242C93000 / Air	Detense Targets			C93000 / Air Defense Targets					
Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue	
Remotely Piloted Vehicle Target		2020	Griffon Aerospace Inc. / Madison, AL		AMCOM	Mar 2020	Jun 2020	394	6.962	Y	711 411 411		
(RPVT)			,			-							
Remotely Piloted Vehicle Target (RPVT)		2021	Griffon Aerospace Inc. / Madison, AL	C / 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			
Infrared Kit Payload		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Jun 2020	394	0.332	Υ			
Infrared Kit Payload		2021	Griffon Aerospace Inc. / Madison, AL	C / FFP	PEO-STRI	Dec 2020	Apr 2021	538	0.341	Υ			
Infrared Kit Payload		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Jan 2022	666	0.335	Υ			
Launcher		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Jun 2020	5	31.000	Υ			
Launcher		2021	Griffon Aerospace Inc. / Madison, AL	C / FFP	PEO-STRI	Dec 2020	Jun 2021	1	32.000	Υ			
Launcher		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Jan 2022	5	33.200	Υ			
Manual Navigation GCS		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Jun 2020	14	12.214	Υ			
Manual Navigation GCS		2021	Griffon Aerospace Inc. / Madison, AL	C / FFP	PEO STRI	Dec 2020	Jun 2021	5	12.600	Υ			
Manual Navigation GCS		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Jan 2022	5	12.000	Υ			
BVR Navigation GCS		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Jun 2020	4	31.750	Υ			
BVR Navigation GCS		2021	Griffon Aerospace Inc. / Madison, AL	C / FFP	PEO STRI	Dec 2020	Jul 2021	10	32.700	Υ			
BVR Navigation GCS		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Feb 2022	10	33.500	Υ			
BVR Payload		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Jun 2020	20	14.100	Υ			
BVR Payload		2021	Griffon Aerospace Inc. / Madison, AL	C / FFP	PEO STRI	Dec 2020	Jul 2021	27	14.519	Υ			
BVR Payload		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	May 2022	65	15.800	Υ			
Acoustic Scoring Payload		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Jun 2020	28	13.786	Υ			
Acoustic Scoring Payload		2021	Griffon Aerospace Inc. / Madison, AL	C / FFP	PE STRI	Dec 2020	Jul 2021	50	14.200	Υ			
Acoustic Scoring Payload		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	May 2022	55	15.000	Υ			
Acoustic Scoring GCS		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Jun 2020	9	49.222	Υ			
Acoustic Scoring GCS		2021	Griffon Aerospace Inc. / Madison, AL	C / FFP	PEO STRI	Dec 2020	Jul 2021	2	51.000	Υ			
Acoustic Scoring GCS		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	May 2022	2	50.000	Υ			
Radar Scoring Payload		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Dec 2021	20	19.300	Y			
Radar Scoring Payload		2021	Griffon Aerospace Inc. / Madison, AL	C / 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	Υ			
Radar Scoring GCS		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Jun 2020	1	18.000	Υ			
Radar Scoring GCS		2021	Griffon Aerospace Inc. / Madison, AL	C / FFP	PEO STRI	Dec 2020	Dec 2021	2	18.500	Υ			
Radar Scoring GCS		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Nov 2022	2	18.000	Υ			
RPVT Lighting Kit Payload		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Jun 2020	31	0.323	Υ			
RPVT Lighting Kit Payload		2021	Griffon Aerospace Inc. / Madison, AL	C / FFP	PEO STRI	Dec 2020	May 2021	45	0.333	Υ			

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Exhibit P-5a, Procurement History and Planning: PB 2022 Army

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

Date: May 2021

Item Number / Title [DODIC]:
1242C93000 / Air Defense Targets

C93000 / Air Defense Targets

					-						_	
Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
RPVT Lighting Kit Payload		2022	Griffon Aerospace Inc. / Madison, AL	C / FFP	ACC-ORL	Nov 2021	Jan 2022	100	0.260	Y		
Smoke Generator Payload		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Jun 2020	0	0.000	Y		
Smoke Generator Payload		2021	Griffon Aerospace Inc. / Madison, AL	C / 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		
Over the Horizon BVR Payload		2020	Griffon Aerospace Inc. / Madison, AL	C / FFP	AMCOM	Mar 2020	Jun 2020	0	0.000	Y		
Over the Horizon BVR Payload		2021	Griffon Aerospace Inc. / Madison, AL	C / 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	Υ		