CLEARED
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Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

Department of Defense
Fiscal Year (FY) 2023 Budget Estimates

April 2022

Army

Justification Book of

Aircraft Procurement, Army

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Cost Statement

The following Justification Books were prepared at a cost of $474,495.00: Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical & Support Vehicles, Other Procurement Army (OPA) 2 – Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 5C, Budget Activity 6, Budget Activity 7, and Budget Activity 8.

AIRCRAFT PROCUREMENT, ARMY

Appropriation Language

For construction, procurement, production, and modification of aircraft, 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, $2,849,655,000 to remain available for obligation until September 30, 2025.

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

- Combat or direct combat support expenses that discontinue once combat operations end at major contingency locations $76,185.000

- In-theater and in-CONUS expenses that remain after combat operations cease and have been previously funded in OCO $8,309,000

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

Apr 2022

Appropriation: **Aircraft Procurement, Army**

Budget Activity	FY 2021 (Base + OCO)	FY 2022 Enactment	FY 2023 Request
01. Aircraft	2,839,254	2,171,084	1,789,586
02. Modification of Aircraft	693,800	596,955	414,836
04. Support Equipment and Facilities	585,048	527,392	645,233
Total Aircraft Procurement, Army	**4,118,102**	**3,295,431**	**2,849,655**

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

Apr 2022

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO) Quantity	FY 2021 (Base + OCO) Cost	FY 2022 Enactment Quantity	FY 2022 Enactment Cost	FY 2023 Request Quantity	FY 2023 Request Cost	Sec
	Budget Activity 01: Aircraft								
	Fixed Wing								
1	Utility F/W Aircraft		1	82,000		6,000			U
2	MQ-1 UAV	A	11	110,000					U
3	Future UAS Family	A		1,100					U
4	SMALL UNMANNED AIRCRAFT SYSTEM	A		16,551		16,005			U
5	SMALL UNMANNED AIRCRAFT SYSTEMS	A						10,598	U
	Rotary								
6	Spectrum Army Video	A		5,514					U
7	AH-64 Apache Block IIIA Reman	A	50	(982,897)	29	(638,596)	35	(716,891)	U
	Less: Advance Procurement (PY)			(-190,870)		(-169,460)		(-192,230)	U
				792,027		**469,136**		**524,661**	
8	AH-64 Apache Block IIIA Reman Advance Procurement (CY)			169,460		192,230		169,218	U
	C (FY 2021 for FY 2022) (M)			(169,460)					
	C (FY 2022 for FY 2023) (M)					(192,230)			
	C (FY 2023 for FY 2024) (M)							(169,218)	
9	AH-64 Apache Block IIIB New Build	A	2	69,154					U
10	UH-60 Blackhawk M Model (MYP)		42	(943,584)	31	(929,190)	25	(796,474)	U
	Less: Advance Procurement (PY)			(-81,488)		(-87,427)		(-146,068)	U
				862,096		**841,763**		**650,406**	
11	UH-60 Blackhawk M Model (MYP) Advance Procurement (CY)			87,427		146,068		68,147	U
	C (FY 2021 for FY 2022) (M)			(87,427)					
	C (FY 2022 for FY 2023) (M)					(146,068)			
	C (FY 2023 for FY 2024) (M)							(68,147)	
12	UH-60 Black Hawk L and V Models	A	24	165,197	24	166,205	28	178,658	U

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

Apr 2022

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO) Quantity	FY 2021 (Base + OCO) Cost	FY 2022 Enactment Quantity	FY 2022 Enactment Cost	FY 2023 Request Quantity	FY 2023 Request Cost	Sec
13	CH-47 Helicopter	A	11	(446,408)	8	(333,490)	6	(187,708)	U
	Less: Advance Procurement (PY)			(-46,186)		(-18,372)		(-18,559)	U
				400,222		**315,118**		**169,149**	
14	CH-47 Helicopter								
	Advance Procurement (CY)			18,372		18,559		18,749	U
	C (FY 2021 for FY 2022) (M)			(18,372)					
	C (FY 2022 for FY 2023) (M)					(18,559)			
	C (FY 2023 for FY 2024) (M)							(18,749)	
15	Spectrum Army SUAS	A		60,134					U
Total Aircraft				**2,839,254**		**2,171,084**		**1,789,586**	

Budget Activity 02: Modification of Aircraft

Modification of Aircraft

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO) Quantity	FY 2021 (Base + OCO) Cost	FY 2022 Enactment Quantity	FY 2022 Enactment Cost	FY 2023 Request Quantity	FY 2023 Request Cost	Sec
16	MQ-1 PAYLOAD	A						57,700	U
17	Universal Ground Control Equipment (UAS)	A		7,509					U
18	Gray Eagle Mods2	A		30,280		123,143		13,038	U
19	MULTI SENSOR ABN RECON			158,384		120,910		21,380	U
20	AH-64 MODS	A		99,816		118,560		85,840	U
21	CH-47 Cargo Helicopter Mods (MYP)			15,548		21,918		11,215	U
22	GRCS SEMA MODS	A		2,947		2,762			U
23	ARL SEMA MODS	A		9,598		14,437			U
24	EMARSS SEMA MODS	A		28,912		1,568		1,591	U
25	Utility/Cargo Airplane Mods			13,868		8,530			U
26	Utility Helicopter Mods			46,342		25,326		21,346	U
27	Network And Mission Plan	A		77,432		29,206		44,526	U
28	Comms, Nav Surveillance	A		101,355		58,117		72,387	U

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

Apr 2022

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO) Quantity	FY 2021 (Base + OCO) Cost	FY 2022 Enactment Quantity	FY 2022 Enactment Cost	FY 2023 Request Quantity	FY 2023 Request Cost	Sec
29	Degraded Visual Environment	A		1,916					U
30	Aviation ASSURED PNT	A		53,509		45,862		71,130	U
31	GATM Rollup	A		12,180		16,776		14,683	U
32	RQ-7 UAV MODS	A		30,000		6,000			U
33	UAS MODS	A		4,204		3,840			U
Total Modification of Aircraft				**693,800**		**596,955**		**414,836**	
Budget Activity 04: Support Equipment and Facilities									
	Ground Support Avionics								
34	Aircraft Survivability Equipment			44,455		62,961		167,927	U
35	Survivability CM			8,035		5,104		6,622	U
36	CMWS	A		159,729		148,570		107,112	U
37	Common Infrared Countermeasures (CIRCM)	A	120	266,517	110	234,012	125	288,209	U
	Other Support								
38	Avionics Support Equipment			1,789					U
39	Common Ground Equipment			17,584		13,561		20,823	U
40	Aircrew Integrated Systems			49,293		41,425		25,773	U
41	Air Traffic Control			26,408		21,759		27,492	U
42	Launcher, 2.75 Rocket			2,256				1,275	U
43	Launcher Guided Missile: Longbow Hellfire XM2	A		8,982					U
Total Support Equipment and Facilities				**585,048**		**527,392**		**645,233**	
Total Aircraft Procurement, Army				**4,118,102**		**3,295,431**		**2,849,655**	

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

Appropriation 2031A: Aircraft Procurement, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	01	10	9440A11300	Utility F/W Aircraft	1
2	01	10	9670A00005	MQ-1 UAV	2
3	01	10	9672A00510	Future UAS Family	3
4	01	10	9675A00010	SMALL UNMANNED AIRCRAFT SYSTEM	5
5	01	10	9678A12500	SMALL UNMANNED AIRCRAFT SYSTEMS	7
6	01	20	3167A09999	Spectrum Army Video	14
7	01	20	5757A05111	AH-64 Apache Block IIIA Reman	15
8	01	20	5757A05111	AH-64 Apache Block IIIA Reman, Advance Procurement	27
9	01	20	5840A05133	AH-64 Apache Block IIIB New Build	31
10	01	20	6771AA0005	UH-60 Blackhawk M Model (MYP)	36
11	01	20	6771AA0005	UH-60 Blackhawk M Model (MYP), Advance Procurement	46
12	01	20	6773A05009	UH-60 Black Hawk L and V Models	50
13	01	20	6775A05101	CH-47 Helicopter	56
14	01	20	6775A05101	CH-47 Helicopter, Advance Procurement	68
15	01	20	9990A19900	Spectrum Army SUAS	72

Appropriation 2031A: Aircraft Procurement, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
16	02	10	0023A01001	MQ-1 PAYLOAD	73
17	02	10	0028A02706	Universal Ground Control Equipment (UAS)	81
18	02	10	0756AA6601	Gray Eagle Mods2	82
19	02	10	1036AZ2001	MULTI SENSOR ABN RECON	98
20	02	10	2706AA6605	AH-64 MODS	108
21	02	10	3264AA0252	CH-47 Cargo Helicopter Mods (MYP)	122
22	02	10	3403A02111	GRCS SEMA MODS	141
23	02	10	3404A02110	ARL SEMA MODS	143
24	02	10	3405A02112	EMARSS SEMA MODS	145
25	02	10	4194AA0270	Utility/Cargo Airplane Mods	147
26	02	10	6949AA0480	Utility Helicopter Mods	149
27	02	10	8658AA0712	Network And Mission Plan	173
28	02	10	8659AA0723	Comms, Nav Surveillance	186
29	02	10	8660A00713	Degraded Visual Environment	206
30	02	10	8662A01006	Aviation ASSURED PNT	207
31	02	10	8859AA0711	GATM Rollup	217

Appropriation 2031A: Aircraft Procurement, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
32	02	10	9555A00018	RQ-7 UAV MODS	232
33	02	10	9556A01002	UAS MODS	234

Appropriation 2031A: Aircraft Procurement, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
34	04	10	3632AZ3504	Aircraft Survivability Equipment	235
35	04	10	5044AZ3507	Survivability CM	250
36	04	10	5397AZ3517	CMWS	255
37	04	10	5399AZ3537	Common Infrared Countermeasures (CIRCM)	263
38	04	30	0832AZ3000	Avionics Support Equipment	277
39	04	30	5212AZ3100	Common Ground Equipment	278
40	04	30	6380AZ3110	Aircrew Integrated Systems	282
41	04	30	6818AA0050	Air Traffic Control	286
42	04	30	9154A50100	Launcher, 2.75 Rocket	291
43	04	30	9157J01200	Launcher Guided Missile: Longbow Hellfire XM299	292

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
AH-64 Apache Block IIIA Reman	5757A05111	7	01	20	15
AH-64 Apache Block IIIA Reman, Advance Procurement	5757A05111	8	01	20	27
AH-64 Apache Block IIIB New Build	5840A05133	9	01	20	31
AH-64 MODS	2706AA6605	20	02	10	108
ARL SEMA MODS	3404A02110	23	02	10	143
Air Traffic Control	6818AA0050	41	04	30	286
Aircraft Survivability Equipment	3632AZ3504	34	04	10	235
Aircrew Integrated Systems	6380AZ3110	40	04	30	282
Aviation ASSURED PNT	8662A01006	30	02	10	207
Avionics Support Equipment	0832AZ3000	38	04	30	277
CH-47 Cargo Helicopter Mods (MYP)	3264AA0252	21	02	10	122
CH-47 Helicopter	6775A05101	13	01	20	56
CH-47 Helicopter, Advance Procurement	6775A05101	14	01	20	68
CMWS	5397AZ3517	36	04	10	255
Common Ground Equipment	5212AZ3100	39	04	30	278
Common Infrared Countermeasures (CIRCM)	5399AZ3537	37	04	10	263
Comms, Nav Surveillance	8659AA0723	28	02	10	186

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Degraded Visual Environment	8660A00713	29	02	10	206
EMARSS SEMA MODS	3405A02112	24	02	10	145
Future UAS Family	9672A00510	3	01	10	3
GATM Rollup	8859AA0711	31	02	10	217
GRCS SEMA MODS	3403A02111	22	02	10	141
Gray Eagle Mods2	0756AA6601	18	02	10	82
Launcher Guided Missile: Longbow Hellfire XM299	9157J01200	43	04	30	292
Launcher, 2.75 Rocket	9154A50100	42	04	30	291
MQ-1 PAYLOAD	0023A01001	16	02	10	73
MQ-1 UAV	9670A00005	2	01	10	2
MULTI SENSOR ABN RECON	1036AZ2001	19	02	10	98
Network And Mission Plan	8658AA0712	27	02	10	173
RQ-7 UAV MODS	9555A00018	32	02	10	232
SMALL UNMANNED AIRCRAFT SYSTEM	9675A00010	4	01	10	5
SMALL UNMANNED AIRCRAFT SYSTEMS	9678A12500	5	01	10	7
Spectrum Army SUAS	9990A19900	15	01	20	72
Spectrum Army Video	3167A09999	6	01	20	14
Survivability CM	5044AZ3507	35	04	10	250
UAS MODS	9556A01002	33	02	10	234
UH-60 Black Hawk L and V Models	6773A05009	12	01	20	50

Line Item Title	Line Item Number	Line #	BA	BSA	Page
UH-60 Blackhawk M Model (MYP)	6771AA0005	10	01	20	36
UH-60 Blackhawk M Model (MYP), Advance Procurement	6771AA0005	11	01	20	46
Universal Ground Control Equipment (UAS)	0028A02706	17	02	10	81
Utility F/W Aircraft	9440A11300	1	01	10	1
Utility Helicopter Mods	6949AA0480	26	02	10	149
Utility/Cargo Airplane Mods	4194AA0270	25	02	10	147

Lookup Matrix by Model

Model:	UH-60 A and L	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
A05009	UH-60 Black Hawk L and V Models	No

Model:	N/A	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
A00002	Communications Modernization (Link 16)	No

Model:	ARL	
Modification P-40a Aggregated Items Title:	**Various**	
Item Number	**Item Title**	**Applies to Multiple Models**
Various Items		
AZ2050	ARL PAYLOADS	No

Model:	See individual Mods	
Modification P-40a Aggregated Items Title:	**Various**	
Item Number	**Item Title**	**Applies to Multiple Models**
Various Items		
AZ2052	GUARDRAIL PAYLOADS	No

Model:	EMARSS	
Modification P-40a Aggregated Items Title:	Various	
Item Number	**Item Title**	**Applies to Multiple Models**
Various Items		
AZ2054	EMARSS PAYLOADS	No
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0712	Network And Mission Plan	Yes

Model:	Saturn Arch	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AZ2056	ABN ISR MODS (MIP)	No

Model:	Longbow Apache	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA6606	AH-64 APACHE MODS	No

Model:	CH-47	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0252	CH-47 Cargo Helicopter Mods (MYP)	No

Army • Budget Estimates FY 2023 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Model:	UH-60	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0492	UTILITY HELICOPTER MODS	Yes

Model:	UH-72	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0492	UTILITY HELICOPTER MODS	Yes
AA0712	Network And Mission Plan	Yes

Model:	AH-64D/E	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0712	Network And Mission Plan	Yes
AA0723	Comms, Nav Surveillance	Yes
A01006	Aviation ASSURED PNT	Yes

Model:	CH-47D/F	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0712	Network And Mission Plan	Yes

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

Model:	UH-60A/L/M/Q/V	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0712	Network And Mission Plan	Yes

Model:	HH-60L/M	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0712	Network And Mission Plan	Yes

Model:	UAS	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0712	Network And Mission Plan	Yes
AA0723	Comms, Nav Surveillance	Yes
A01006	Aviation ASSURED PNT	Yes
AA0704	GATM - Rotary Wing Aircraft	Yes

Model:	UH/HH-60A/L	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0723	Comms, Nav Surveillance	Yes
A01006	Aviation ASSURED PNT	Yes

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

Model:	UH/HH/MH-60M	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0723	Comms, Nav Surveillance	Yes
A01006	Aviation ASSURED PNT	Yes

Model:	CH-47D	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0723	Comms, Nav Surveillance	Yes
A01006	Aviation ASSURED PNT	Yes

Model:	CH/MH-47F	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0723	Comms, Nav Surveillance	Yes
A01006	Aviation ASSURED PNT	Yes

Model:	LUH	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0723	Comms, Nav Surveillance	Yes
A01006	Aviation ASSURED PNT	Yes

Army • Budget Estimates FY 2023 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Model:	UH&HH60A/L	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0704	GATM - Rotary Wing Aircraft	Yes

Model:	CH47D/F	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0704	GATM - Rotary Wing Aircraft	Yes

Model:	UH60M	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0704	GATM - Rotary Wing Aircraft	Yes

Model:	MH47G	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0704	GATM - Rotary Wing Aircraft	Yes

Model:	MH60M	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0704	GATM - Rotary Wing Aircraft	Yes

Model:	**A/MH6**	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0704	GATM - Rotary Wing Aircraft	Yes

Model:	**AH64A/D/E**	
P-3a Individual Modifications		
Modification Number	**Modification Title**	**Applies to Multiple Models**
AA0704	GATM - Rotary Wing Aircraft	Yes

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

Funding ($ M)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Exhibit P-40a										
ARL PAYLOADS	1,274.077	62.876	81.989	-	-	-	14.601	14.605	14.685	14.622
GUARDRAIL PAYLOADS	120.980	25.869	11.799	3.714	-	3.714	-	-	-	-
EMARSS PAYLOADS	91.403	15.204	9.912	0.456	-	0.456	3.124	3.418	3.434	3.422
Exhibit P-3a										
UH-60 Black Hawk L and V Models	10,609.241	165.197	166.205	178.658	-	178.658	157.024	160.313	206.388	205.626
Communications Modernization (Link 16)	278.141	30.280	123.143	13.038	-	13.038	11.735	-	-	-
ABN ISR MODS (MIP)	-	54.435	17.210	17.210	-	17.210	-	-	-	-
AH-64 APACHE MODS	9,053.688	99.816	118.560	85.840	-	85.840	66.270	5.072	66.498	66.256
CH-47 Cargo Helicopter Mods (MYP)	11,081.938	15.548	21.918	11.215	-	11.215	13.343	3.455	18.267	18.200
UTILITY HELICOPTER MODS	1,696.505	46.342	25.326	21.346	-	21.346	28.717	5.114	36.578	36.444
Network And Mission Plan	950.337	77.432	29.206	44.526	-	44.526	44.379	36.288	41.837	41.684
Comms, Nav Surveillance	1,041.462	101.355	58.117	72.387	-	72.387	85.081	63.984	38.380	38.233
Aviation ASSURED PNT	-	53.509	45.862	71.130	-	71.130	60.300	59.578	61.130	60.902
GATM - Rotary Wing Aircraft	765.300	12.180	16.776	14.683	-	14.683	9.099	5.049	5.086	-
Totals (Total Obligation Authority)										
Total Obligation Authority	**36,963.072**	**760.043**	**726.023**	**534.203**	**0.000**	**534.203**	**493.673**	**356.876**	**492.283**	**485.389**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	**P-1 Line Item Number / Title:** 9440A11300 / Utility F/W Aircraft
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A / **Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	40	1	-	-	-	-	-	-	-	-	-	41
Gross/Weapon System Cost *($ in Millions)*	367.287	82.000	6.000	-	-	-	-	-	-	-	-	455.287
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	367.287	82.000	6.000	-	-	-	-	-	-	-	-	455.287
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**367.287**	**82.000**	**6.000**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**455.287**
(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)*	9,182.175	82,000.000	-	-	-	-	-	-	-	-	-	11,104.561

Description:

The budget line funds the acquisition of Army Fixed Wing Aircraft in support of mission requirements, training, and other support activities. Fixed Wing Aircraft will be capable of self-deploying over extended ranges; provide CONUS/OCONUS time sensitive movement of key personnel and equipment; support to homeland defense/security operations; support to civil and military authorities. This budget line also provides for the acquisition of new commercial-off-the-shelf (COTS), modified COTS, and non-developmental Fixed Wing Aircraft systems including used aircraft systems.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	1	-	-	-	-	-	-	-	-
	Total Obligation Authority	82.000	6.000	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**82.000**	**6.000**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Justification:

FY21 procurement dollars in the amount of $82.000 million were released to PM Fixed Wing with an approved spend plan from SAC-D PSM. $23.000 million has been obligated towards the completion of the EMARSS-E platform. The remaining dollars will be utilized for purposes aligned with the G2 strategy for Fixed Wing platforms in Multi-Domain Operations (MDO).

FY22 received a Congressional Plus up in the amount of $6.000 million for Fixed Wings Avionics Upgrades.

FY23 base procurement funding for this line is $0.000 million.

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.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	**P-1 Line Item Number / Title:** 9670A00005 / MQ-1 UAV

ID Code (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0305204A, 0305219A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	275	11	-	-	-	-	-	-	-	-	-	286
Gross/Weapon System Cost *($ in Millions)*	3,750.293	110.000	-	-	-	-	-	-	-	-	-	3,860.293
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	3,750.293	110.000	-	-	-	-	-	-	-	-	-	3,860.293
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**3,750.293**	**110.000**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**3,860.293**
(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)*	13,637.429	10,000.000	-	-	-	-	-	-	-	-	-	13,497.528

Description:

The MQ-1C Gray Eagle provides reconnaissance, surveillance, intelligence, target acquisition, communications relay, electronic warfare, attack, battle damage assessment, manned-unmanned teaming capabilities and command and control missions providing dedicated mission configured Unmanned Aircraft System (UAS) support to assigned and other Army/Joint Force units based upon commander's priorities. The MQ-1C Gray Eagle is a dedicated, multi-mission UAS fielded to 11 Army Combat Aviation Brigades (CAB), two (2) Army Intelligence and Security Command (INSCOM) units, and two (2) Army Special Operations Command (USASOC) units.

The MQ-1C Gray Eagle system consists of 12 Aircraft, 12 Satellite Communication (SATCOM) Air Data Terminals (SADT), six (6) Universal Ground Control Stations (UGCS), seven (7) Universal Ground Data Terminals (UGDT), three (3) Satellite Ground Data Terminals (SGDT), one (1) Mobile Ground Control Station (MGCS), three (3) Automatic Take-Off & Landing System's (ATLS), standard equipment package, Ground Based Sense And Avoid (GBSAA), and payloads to include; Electro-Optical/Infrared Laser Range Finder/Laser Designator (EO/IR/LD HD), Synthetic Aperture Radar/Ground Moving Target Indicator (SAR/GMTI), communication relay, and Government Furnished Equipment.

4 May 2017, the Army approved an Army Acquisition Objective (AAO) adjustment to bring the total requirement to 204 MQ-1C Gray Eagle aircraft.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	11	-	-	-	-	-	-	-	-
	Total Obligation Authority	110.000	-	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**11**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**110.000**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	**P-1 Line Item Number / Title:** 9672A00510 / Future UAS Family

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	12.100	1.100	-	-	-	-	80.928	133.110	229.675	228.837	-	685.750
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	12.100	1.100	-	-	-	-	80.928	133.110	229.675	228.837	-	685.750
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**12.100**	**1.100**	**-**	**-**	**-**	**-**	**80.928**	**133.110**	**229.675**	**228.837**	**-**	**685.750**
(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)*	-	-	-	-	-	-	1,264.500	1,016.107	711.068	665.224	-	795.534

Description:

The Future Unmanned Aircraft System (FUAS) is a critical system in the multi-domain operations concept that will employ cross-domain capabilities at all echelons and allow ground based forces to project power from land into other domains to defeat highly capable enemies, secure terrain, and consolidate gains. FUAS encompasses an array of capabilities from platoon soldiers to Division Commanders.

The Future Vertical Lift Cross Functional Team (FVL CFT) oversaw a demonstration effort in FY 2019 - 2021 that informed the Future Tactical Unmanned Aircraft System (FTUAS) requirement to develop capability that will ultimately replace the RQ-7Bv2 Shadow TUAS within the Brigade Combat Team (BCT) formation. The 12-month demonstration included 20 Soldier touchpoints (new equipment training, field training exercises, and Combat Training Center rotations) across five BCTs and included the training of 61 operators and 56 maintainers. The demonstration resulted in over 1,500 flight hours across more than 500 separate flights to inform the FTUAS Abbreviated Capability Development Document (A-CDD) that goes to an AROC in 4QFY2021. As part of the program development, the program will request Middle Tier Acquisition authority in 3QFY2022 to conduct Rapid Prototyping.

The FVL CFT FUAS line of effort will be comprised of multiple components including the FTUAS for the BCT, Air Launched Effects (ALE) and Scalable Control Interface (SCI). The FTUAS seeks to replace the RQ-7Bv2 Shadow assets within the BCTs. Key attributes of the FTUAS focus on Rapid Deployability, Expeditionary Maneuver, and Mobility for adaptive and agile operations. FTUAS will consist of an aircraft subsystem that will include the airframe, propulsion, avionics, communications, navigation, and software systems; aircraft-specific ground support equipment including power generation, transportation, or command and control equipment; aircraft software; and required engineering, logistics, and programmatic support. Manned, optionally- manned, and unmanned systems will penetrate defense-in-depth environments by employing ALE with teaming and swarming effects to detect, decoy, jam RADAR and communications, conduct cyber-attack, spoof and jam GPS, and kinetic engagement.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.100	-	-	-	-	80.928	133.110	229.675	228.837
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**1.100**	**-**	**-**	**-**	**-**	**80.928**	**133.110**	**229.675**	**228.837**

Justification:

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	**P-1 Line Item Number / Title:** 9672A00510 / Future UAS Family	
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		

FY 2023 Procurement funding for Future UAS Family is zero ($0).

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.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	**P-1 Line Item Number / Title:** 9675A00010 / SMALL UNMANNED AIRCRAFT SYSTEM

ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0305232A, 0604101A, 0605205A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	320.980	16.551	16.005	-	-	-	-	-	-	-	-	353.536
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	320.980	16.551	16.005	-	-	-	-	-	-	-	-	353.536
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**320.980**	**16.551**	**16.005**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**353.536**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Rucksack Portable Unmanned Aircraft System (RPUAS) Family of Small Unmanned Aircraft Systems (FoSUAS) provides the battalion and below ground maneuver elements with an organic, on-demand, asset to develop situational awareness, enhance force protection, and secure routes, points, and areas. The system provides the small unit commander an organic and responsive reconnaissance and targeting capability with real-time Full Motion Video and sensor data. The RPUAS FoSUAS includes a combination of three separate hand-launched mission specific configurable aircraft that do not require an improved launch/recovery. The three separate mission specific configurable Unmanned Aircraft (UA) are the Short Range Reconnaissance (SRR), the Medium Range Reconnaissance (MRR), and the Long Range Reconnaissance (LRR).

COVID-19 pandemic impacts resulted in delayed final operational test, which postponed production readiness and Milestone C Production Decision into 1QFY22. The SRR Production Decision was received October 2022. Production OT awarded 19 November 2022. Once contract awarded, Unit Cost increased to $39.806 in thousands). Actual procurement quantities for FY20 and FY21 total 540 SRR Systems. FY20 funds were also used to mitigate unexpected obsolescence and end of life procurement for critical components of the handheld ground control station in support of SRR. Planned FY22 procurement, based on updated actuals, is 215 SRR Systems.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	16.551	16.005	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**16.551**	**16.005**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Justification:
Justification: FY2023 Base procurement dollars is in the amount of $0 million. Funding has been realigned, starting in FY23, to Line A12511 Short Range Reconnaissance.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	**P-1 Line Item Number / Title:** 9675A00010 / SMALL UNMANNED AIRCRAFT SYSTEM	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0305232A, 0604101A, 0605205A
Line Item MDAP/MAIS Code: N/A		

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

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	**P-1 Line Item Number / Title:** 9678A12500 / SMALL UNMANNED AIRCRAFT SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A / **Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	216	-	216	459	463	462	461	Continuing	Continuing
Gross/Weapon System Cost *($ in Millions)*	-	-	-	10.598	-	10.598	20.666	20.817	20.917	20.816	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	-	-	-	10.598	-	10.598	20.666	20.817	20.917	20.816	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**-**	**-**	**-**	**10.598**	**-**	**10.598**	**20.666**	**20.817**	**20.917**	**20.816**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	49.065	-	49.065	45.024	44.961	45.275	45.154	Continuing	Continuing

Description:

The Rucksack Portable Unmanned Aircraft System (RPUAS) Family of Small Unmanned Aircraft Systems (FoSUAS) provides the battalion and below ground maneuver elements with an organic, on-demand, asset to develop situational awareness, enhance force protection, and secure routes, points, and areas. The system provides the small unit commander an organic and responsive reconnaissance and targeting capability with real-time Full Motion Video and sensor data. The RPUAS FoSUAS includes a combination of three separate hand-launched mission specific configurable aircraft that do not require an improved launch/recovery. The three separate mission specific configurable Unmanned Aircraft (UA) are the Short Range Reconnaissance (SRR), the Medium Range Reconnaissance (MRR), and the Long Range Reconnaissance (LRR).

The Short Range Reconnaissance (SRR) (A12511) platform is intended to be an inexpensive, rucksack portable, vertical takeoff landing (VTOL) small unmanned aircraft that provides the platoon with a rapid deployed reconnaissance, surveillance, and target acquisition (RSTA) capability to provide situational awareness beyond the next terrain feature.

The MRR (A12512) and the LRR (A12513) currently have no funding; both systems are expected to receive an updated requirement in FY22.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	216	-	216	185	191	190	190
	Total Obligation Authority	-	-	10.598	-	10.598	8.267	8.327	8.367	8.327
ANG	Quantity	-	-	-	-	-	185	190	190	190
	Total Obligation Authority	-	-	-	-	-	8.266	8.327	8.367	8.326
AR	Quantity	-	-	-	-	-	89	82	82	81
	Total Obligation Authority	-	-	-	-	-	4.133	4.163	4.183	4.163
Total: Secondary Distribution	**Quantity**	**-**	**-**	**216**	**-**	**216**	**459**	**463**	**462**	**461**
	Total Obligation Authority	**-**	**-**	**10.598**	**-**	**10.598**	**20.666**	**20.817**	**20.917**	**20.816**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	**P-1 Line Item Number / Title:** 9678A12500 / SMALL UNMANNED AIRCRAFT SYSTEMS	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-5	A12511 / SHORT RANGE RECONNAISSANCE	P-5a, P-21			- / -	- / -	- / -	216 / 10.598	- / -	216 / 10.598
P-40	**Total Gross/Weapon System Cost**				**- / -**	**- / -**	**- / -**	**216 / 10.598**	**- / -**	**216 / 10.598**

*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:

Justification: FY2023 Base procurement dollars in the amount of $10.598 million supports procurement of 216 Short Range Reconnaissance (SRR) Systems (system consists of 2 air vehicles, 1 Handheld Ground Control Station (HGCS), Digital Data Link (DDL) and Electro-Optical/Infrared (EO/IR) Payload). Remaining funding is for initial spares packages, training, fielding, technical and program support.

Starting in FY23, funding has been reprogrammed from A00010 to A12511 for SRR.

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.

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	**P-1 Line Item Number / Title:** 9678A12500 / SMALL UNMANNED AIRCRAFT SYSTEMS	**Item Number / Title [DODIC]:** A12511 / SHORT RANGE RECONNAISSANCE
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	-	-	-	216	-	216
Gross/Weapon System Cost *($ in Millions)*	-	-	-	10.598	-	10.598
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	-	-	-	10.598	-	10.598
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**-**	**-**	**-**	**10.598**	**-**	**10.598**
(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)*	-	-	-	49.065	-	49.065

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
Initial Spares	-	-	-	-	-	-	-	-	-	-	-	0.340	-	-	-	-	-	0.340
Technical Support	-	-	-	-	-	-	-	-	-	-	-	0.274	-	-	-	-	-	0.274
Logistics (Fielding)	-	-	-	-	-	-	-	-	-	-	-	0.346	-	-	-	-	-	0.346
Training	-	-	-	-	-	-	-	-	-	-	-	0.777	-	-	-	-	-	0.777
PM Support	-	-	-	-	-	-	-	-	-	-	-	0.263	-	-	-	-	-	0.263
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	*2.000*	-	-	-	-	-	*2.000*
Subtotal: Flyaway Cost	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	***2.000***	**-**	**-**	**-**	**-**	**-**	***2.000***
Hardware Cost																		
Recurring Cost																		
Short Range Reconnaissance (SRR) Systems(†)	-	-	-	-	-	-	-	-	-	39.806	216	8.598	-	-	-	39.806	216	8.598
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	*8.598*	-	-	-	-	-	*8.598*
Subtotal: Hardware Cost	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	***8.598***	**-**	**-**	**-**	**-**	**-**	***8.598***
Gross/Weapon System Cost	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**49.065**	**216**	**10.598**	**-**	**-**	**-**	**49.065**	**216**	**10.598**

Remarks:
SRR hardware unit cost ($39.806 in thousands) is for 1 SRR system (1 system consists of 2 SRR air vehicles, 1 Handheld Ground Control Station (HGCS), Digital Data Link (DDL) and Electro-Optical/Infrared (EO/IR) Payload).

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	**P-1 Line Item Number / Title:** 9678A12500 / SMALL UNMANNED AIRCRAFT SYSTEMS	**Item Number / Title [DODIC]:** A12511 / SHORT RANGE RECONNAISSANCE
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	216	-	216
	Total Obligation Authority	-	-	10.598	-	10.598
Total: Secondary Distribution	**Quantity**	**-**	**-**	**216**	**-**	**216**
	Total Obligation Authority	**-**	**-**	**10.598**	**-**	**10.598**

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	**P-1 Line Item Number / Title:** 9678A12500 / SMALL UNMANNED AIRCRAFT SYSTEMS	**Item Number / Title [DODIC]:** A12511 / SHORT RANGE RECONNAISSANCE

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty *(Each)*	Unit Cost *($ K)*	Specs Avail Now?	Date Revision Available	RFP Issue Date
Short Range Reconnaissance (SRR) Systems(†)		2023	Skydio / Redwood City, CA	C / IDIQ	ACC - Redstone	Apr 2023	May 2023	216	39.806	Y		Dec 2022

(†) indicates the presence of a P-21

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	**P-1 Line Item Number / Title:** 9678A12500 / SMALL UNMANNED AIRCRAFT SYSTEMS	**Item Number / Title [DODIC]:** A12511 / SHORT RANGE RECONNAISSANCE

Cost Elements (Units in Each)							Fiscal Year 2023												Fiscal Year 2024												BALANCE
										Calendar Year 2023												Calendar Year 2024									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Short Range Reconnaissance (SRR) Systems																															
	1	2023	ARMY	216	0	216							A -	36	36	36	36	36	36												0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	**P-1 Line Item Number / Title:** 9678A12500 / SMALL UNMANNED AIRCRAFT SYSTEMS	**Item Number / Title [DODIC]:** A12511 / SHORT RANGE RECONNAISSANCE

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
					Initial				Reorder			
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Skydio - Redwood City, CA	30	60	80	3	4	6	10	0	3	1	4

Remarks:
Quantities and delivery schedules for FY20, 21, & 22 can be found on A00010. Starting in FY23, funding has been realigned to A12511.

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

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 3167A09999 / Spectrum Army Video

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	37.292	5.514	-	-	-	-	-	-	-	-	-	42.806
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	37.292	5.514	-	-	-	-	-	-	-	-	-	42.806
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**37.292**	**5.514**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**42.806**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Commercial Spectrum Enhancement Act (CSEA) Title II, Public Law 108-494, dated December 23, 2004, established the Spectrum Relocation Fund (SRF) to provide Federal agencies a mechanism to recover the costs associated with relocating communication systems from spectrum bands which were auctioned for commercial purposes.

- The SRF is funded with proceeds from Federal Communications Commission (FCC) conducted auctions of spectrum licenses.
- SRF funds have an indefinite obligation period and remain available until expended (X Year).
- The Department of Defense (DoD) Information Officer (CIO) executes oversight of the DoD spectrum relocation and sharing efforts.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.514	-	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**5.514**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Justification:

The Tactical-Video (TAC-V) Downlink system is an integral component of the Security and Support (S&S) mission set of capabilities. The system consists of the video transmitter and antenna suite which are mounted on the UH-72 Lakota aircraft, the ground-based receiver antenna array, and a ground operator handheld receiver/display device for dismounted operations.

The systems allows the platform to transmit streaming video to the operator on the ground that receives, records, displays, and can play back real-time full motion video imagery and moving map metadata. This system is utilized in the support of state and federal law enforcement agencies, emergency first responders, and border patrol and customs agencies and as such, it is vital that this capability remain available to those agencies.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman

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: 202

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	433	50	29	35	-	35	43	32	-	-	Continuing	Continuing
Gross/Weapon System Cost *($ in Millions)*	8,848.850	982.897	638.596	716.891	-	716.891	994.065	583.309	41.967	41.789	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	1,572.646	190.870	169.460	192.230	-	192.230	169.218	-	-	-	Continuing	Continuing
Net Procurement (P-1) *($ in Millions)*	7,276.204	792.027	469.136	524.661	-	524.661	824.847	583.309	41.967	41.789	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	1,763.516	169.460	192.230	169.218	-	169.218	-	-	-	-	Continuing	Continuing
Total Obligation Authority *($ in Millions)*	**9,039.720**	**961.487**	**661.366**	**693.879**	**-**	**693.879**	**824.847**	**583.309**	**41.967**	**41.789**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	132.860	17.270	18.800	0.000	-	0.000	0.000	0.000	-	-	Continuing	Continuing
Gross/Weapon System Unit Cost *($ in Thousands)*	20,436.143	19,657.940	22,020.552	20,482.600	-	20,482.600	23,117.791	18,228.406	-	-	Continuing	Continuing

Description:

AH-64E Reman is a complete remanufacture using a new airframe and meets all the requirements for Army and Joint interoperability goals for the future and adds significant combat capability while addressing obsolescence issues, ensuring the aircraft remains a viable combat multiplier beyond its lifecycle. The Army's only heavy attack helicopter, the AH-64E is fully digital with the latest technologies, adding significant combat capability to the aircraft. The AH-64E Apache is implementing an incremental design and fielding strategy as noted in the approved Capability Production Document (CPD). AH-64E Capability Version 1 includes Improved Drive and Propulsion System, Composite Main Rotor Blades (CMRB), Unmanned Aircraft System (UAS) Level III-IV Control, Improved Communications Suite, Improved Electronics / Modular Open Systems Approach, and Radar Electronics Unit (REU). Capability Version 4 includes Link 16, Air to Air to Ground (AAG) Video Relay, System Level Embedded Diagnostics (SLED), and provisions for Reduced-Size Crashworthy External Fuel Systems (RCEFS). Capability Version 6 includes Fire Control Radar (FCR) enhancements, Maritime Targeting Mode, Expanded Link-16, Image Blending, Multi-Mode Laser (MML), and Interactive Electronic Technical Manual (IETM) Upgrade. Production Lots 1-4 are Version 1 capable, Production Lots 5-8 are Version 4 capable, and Version 6 is included into the remaining Production Lots beginning with Production Lot 9. Upgrades are integrated as incremental block modifications. Other associated Government Furnished Equipment (GFE) such as the, Modernized Radar Frequency Interferometer (M-RFI), Radar Electronics Unit (REU), and Manned/Unmanned Teaming Extended Capability (MUMT-X) will be procured and provided in accordance with the basis of issue plan. The program addresses operational shortfalls identified during real-world combat missions, meets Apache Capability Production Document (CPD) requirements for modernization, and provides necessary training, initial spares, and Peculiar Ground Support Equipment (PGSE). AH-64E aircraft entered the fleet in 2012.

"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."

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	26	29	11	-	11	19	32	-	-
	Total Obligation Authority	499.973	661.366	218.085	-	218.085	364.467	583.309	41.967	41.789
ANG	Quantity	24	-	24	-	24	24	-	-	-
	Total Obligation Authority	461.514	-	475.794	-	475.794	460.380	-	-	-
Total: Secondary Distribution	**Quantity**	**50**	**29**	**35**	**-**	**35**	**43**	**32**	**-**	**-**
	Total Obligation Authority	**961.487**	**661.366**	**693.879**	**-**	**693.879**	**824.847**	**583.309**	**41.967**	**41.789**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	
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: 202		

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-5	A05111 / AH-64 Apache Block IIIA Reman	P-5a, P-21			433 / 8,848.850	50 / 982.897	29 / 638.596	35 / 716.891	- / -	35 / 716.891
P-40	**Total Gross/Weapon System Cost**				**433 / 8,848.850**	**50 / 982.897**	**29 / 638.596**	**35 / 716.891**	**- / -**	**35 / 716.891**

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

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

Justification:
FY23 Base procurement dollars in the amount of $693.879 millions supports Advance Procurement (AP), Full Rate Production (FRP) of AH-64E Apache Reman aircraft and associated support. This program was restructured in 2010 from the single AH-64E Apache (A05111) into two separate programs, AH-64E Apache Reman (A05111) and AH-64E Apache New Build (A05133).

FY22 Congressional decrease of $35M is due to $10M for Unit Cost Growth and $25M for Program Growth.

FY21 Advanced Procurement received a Congressional rescission of $5M.

The Apache Reman Program assumes a cost sharing with the New Build Program in accordance with the New Build Army Program Baseline (APB).

The current AH-64E Apache Remanufacture and New Build Army Procurement Objective (APO) is 791 Aircraft. The total AH-64E (Remanufacture and New Build) Army Acquisition Objective (AAO) is 812 Aircraft.

The Apache Reman Program quantities and associated funding include a Multi-year contract from FY17- FY21 and assumes approval for a subsequent Multi-year contract in FY22 through FY26. The Apache Reman and New Build Programs are planning continued production of aircraft through FY2027 to meet the Army Procurement Objective (APO).

Currently the total lead time (time from when first materials must be committed to aircraft delivery) is in excess of 24 months. The Cost Assessment and Program Evaluation (CAPE) Independent Cost Estimate (ICE) utilized 18% to 22% for Advance Procurement (AP). Each year's AP can be divided into 2 segments: 1) Government Furnished Equipment (GFE) such as engines, sensors and avionics and 2) Contractor Furnished Equipment (CFE). Material includes production components to support deliveries, provisioning material, pre-modification effort, and any potential termination liability costs. Long lead items include, but not limited to, such items as the Main Rotor Drive Shaft, Composite Main Rotor Blade, Improved Drive System, and Composite Stabilator IAW Financial Management Regulation (FMR) 7000.14-R.

The Economical Production Rate of 98 aircraft per year is the maximum capacity at Full Rate Production assuming a 1-8-5 shift. This requirement is driven primarily by the production rate associated with current fuselage tooling capabilities. In order to increase the 1-8-5 (single shift) production rate, additional tooling must be procured. Capacity can be expanded to 144 aircraft per year with additional investment.

Comments:
"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."

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	**Item Number / Title [DODIC]:** A05111 / AH-64 Apache Block IIIA Reman
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	433	50	29	35	-	35
Gross/Weapon System Cost *($ in Millions)*	8,848.850	982.897	638.596	716.891	-	716.891
Less PY Advance Procurement *($ in Millions)*	1,572.646	190.870	169.460	192.230	-	192.230
Net Procurement (P-1) *($ in Millions)*	7,276.204	792.027	469.136	524.661	-	524.661
Plus CY Advance Procurement *($ in Millions)*	1,763.516	169.460	192.230	169.218	-	169.218
Total Obligation Authority *($ in Millions)*	**9,039.720**	**961.487**	**661.366**	**693.879**	**-**	**693.879**
(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)*	20,436.143	19,657.940	22,020.552	20,482.600	-	20,482.600

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
CFE(†)	15,235.657	437	6,657.982	13,915.120	50	695.756	14,765.862	29	428.210	14,015.886	35	490.556	-	-	-	14,015.886	35	490.556
GFE	3,049.085	437	1,332.450	3,454.340	50	172.717	3,869.448	29	112.214	3,612.543	35	126.439	-	-	-	3,612.543	35	126.439
Non-Recurring Costs	-	-	243.428	-	-	3.860	-	-	3.935	-	-	4.013	-	-	-	-	-	4.013
Support Equipment	-	-	127.573	-	-	19.794	-	-	12.034	-	-	6.074	-	-	-	-	-	6.074
Other Costs	-	-	387.117	-	-	75.868	-	-	72.773	-	-	78.244	-	-	-	-	-	78.244
Initial Spares	-	-	100.300	-	-	14.902	-	-	9.430	-	-	11.565	-	-	-	-	-	11.565
Subtotal: Recurring Cost	-	-	*8,848.850*	-	-	*982.897*	-	-	*638.596*	-	-	*716.891*	-	-	-	-	-	*716.891*
Subtotal: Flyaway Cost	**-**	**-**	***8,848.850***	**-**	**-**	***982.897***	**-**	**-**	***638.596***	**-**	**-**	***716.891***	**-**	**-**	**-**	**-**	**-**	***716.891***
Gross/Weapon System Cost	**20,436.143**	**433**	**8,848.850**	**19,657.940**	**50**	**982.897**	**22,020.552**	**29**	**638.596**	**20,482.600**	**35**	**716.891**	**-**	**-**	**-**	**20,482.600**	**35**	**716.891**

Remarks:
Other Costs is inclusive of the Apache PM cost share that is allocated by percentage across each funding line. Yearly adjustments in Other Costs correspond to increases or decreases across all Apache PM funding lines. These costs are for personnel that perform duties associated with Safety, Compliance, Training, Product Support, Engineering Services, and Logistics.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	26	29	11	-	11
	Total Obligation Authority	499.973	661.366	218.085	-	218.085

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	**Item Number / Title [DODIC]:** A05111 / AH-64 Apache Block IIIA Reman
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
ANG	Quantity	24	-	24	-	24
	Total Obligation Authority	461.514	-	475.794	-	475.794
Total: Secondary Distribution	**Quantity**	**50**	**29**	**35**	**-**	**35**
	Total Obligation Authority	**961.487**	**661.366**	**693.879**	**-**	**693.879**

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: 5757A05111 / AH-64 Apache Block IIIA Reman	Item Number / Title [DODIC]: A05111 / AH-64 Apache Block IIIA Reman

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
CFE(†)		2014	The Boeing Company / Mesa, AZ	SS / FPIF	AMCOM	Mar 2014	Feb 2015	35	15,570.229	Y		Jul 2012
CFE(†)		2015	The Boeing Company / Mesa, AZ	SS / FPIF	AMCOM	Mar 2015	Feb 2016	53	14,679.510	Y		Aug 2014
CFE(†)		2016	The Boeing Company / Mesa, AZ	SS / FPIF	AMCOM	Mar 2016	Jan 2017	64	13,759.470	Y		Aug 2014
CFE		2017	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Mar 2017	Jan 2019	52	13,565.810	Y		Aug 2015
CFE(†)		2018	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Mar 2018	Jul 2019	48	12,956.958	Y		Aug 2015
CFE(†)		2019	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Mar 2019	Jul 2020	48	13,794.229	Y		Aug 2015
CFE(†)		2020	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Mar 2020	May 2021	49	13,969.796	Y		Aug 2015
CFE(†)		2021	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Mar 2021	Jun 2022	50	13,915.120	Y		Aug 2015
CFE(†)		2022	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Mar 2022	Jun 2023	29	14,765.862	Y		Feb 2020
CFE(†)		2023	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Mar 2023	Jan 2024	35	14,015.886	Y		Feb 2020

(†) indicates the presence of a P-21

Remarks:
Major Contractor Furnished Equipment (CFE) cost drivers include, but not limited to, the Fuselage, Transmission, and Composite Main Rotor Blades. Major Government Furnished Equipment (GFE) includes engines, Embedded Global Positioning System Inertial Navigation Systems (EGIs), Radar Electronics Unit (REU), Modernized Target Acquisition Designation System (MTADS)/Pilot Night Vision System (PNVS) and Manned/Unmanned Teaming Extended Capability (MUMT-X). Other Cost includes Support Equipment, Peculiar Ground Support Equipment (PGSE), and Government Program Management Support.

Delivery schedules appear to extend beyond the 12 month period for the following reasons: Yearly procurement consist of AH-64E Remanufactured and New Build aircraft. Both variants are awarded on different contract line items. While each of these efforts deliver all of their aircraft within a 12 month span, they do not deliver within the same 12 month time period.

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	**Item Number / Title [DODIC]:** A05111 / AH-64 Apache Block IIIA Reman

Cost Elements (Units in Each)							Fiscal Year 2014												Fiscal Year 2015												BALANCE
										Calendar Year 2014												Calendar Year 2015									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CFE																															
Prior Years Deliveries: 88																															
	1	2014	ARMY	35	0	35						A -	-	-	-	-	-	-	-	-	-	-	1	3	4	4	4	4	3	3	9
	1	2015	ARMY	53	0	53																		A -	-	-	-	-	-	-	53
	1	2016	ARMY	64	0	64																									64
	1	2018	ARMY	48	0	48																									48
	1	2019	ARMY	48	0	48																									48
	1	2020	ARMY	49	0	49																									49
	1	2021	ARMY	50	0	50																									50
	1	2022	ARMY	29	0	29																									29
	1	2023	ARMY	35	0	35																									35
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	**Item Number / Title [DODIC]:** A05111 / AH-64 Apache Block IIIA Reman

Cost Elements (Units in Each)							Fiscal Year 2016												Fiscal Year 2017												BALANCE
										Calendar Year 2016												Calendar Year 2017									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CFE																															
Prior Years Deliveries: 88																															
	1	2014	ARMY	35	26	9	3	3	3																						0
	1	2015	ARMY	53	0	53	-	-	-	-	3	4	4	3	2	3	2	2	2	3	4	3	-	-	-	-	-	-	-	-	18
	1	2016	ARMY	64	0	64						A -	-	-	-	-	-	-	-	-	-	1	4	4	4	5	5	5	5	5	26
	1	2018	ARMY	48	0	48																									48
	1	2019	ARMY	48	0	48																									48
	1	2020	ARMY	49	0	49																									49
	1	2021	ARMY	50	0	50																									50
	1	2022	ARMY	29	0	29																									29
	1	2023	ARMY	35	0	35																									35
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	**Item Number / Title [DODIC]:** A05111 / AH-64 Apache Block IIIA Reman

Cost Elements (Units in Each)							Fiscal Year 2018												Fiscal Year 2019												BALANCE
							Calendar Year 2018												Calendar Year 2019												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CFE																															
Prior Years Deliveries: 88																															
	1	2014	ARMY	35	35	0																									0
	1	2015	ARMY	53	35	18	-	-	-	-	1	6	6	5																	0
	1	2016	ARMY	64	38	26	5	5	5	6	5																				0
	1	2018	ARMY	48	0	48						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	4	39
	1	2019	ARMY	48	0	48																		A -	-	-	-	-	-	-	48
	1	2020	ARMY	49	0	49																									49
	1	2021	ARMY	50	0	50																									50
	1	2022	ARMY	29	0	29																									29
	1	2023	ARMY	35	0	35																									35
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	**Item Number / Title [DODIC]:** A05111 / AH-64 Apache Block IIIA Reman

Cost Elements (Units in Each)							Fiscal Year 2020												Fiscal Year 2021												BALANCE
										Calendar Year 2020												Calendar Year 2021									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CFE																															
Prior Years Deliveries: 88																															
	1	2014	ARMY	35	35	0																									0
	1	2015	ARMY	53	53	0																									0
	1	2016	ARMY	64	64	0																									0
	1	2018	ARMY	48	9	39	5	4	4	5	4	4	4	4	5																0
	1	2019	ARMY	48	0	48	-	-	-	-	-	-	-	-	-	5	5	5	5	4	4	5	5	5	5						0
	1	2020	ARMY	49	0	49						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	24
	1	2021	ARMY	50	0	50																		A -	-	-	-	-	-	-	50
	1	2022	ARMY	29	0	29																									29
	1	2023	ARMY	35	0	35																									35
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	**Item Number / Title [DODIC]:** A05111 / AH-64 Apache Block IIIA Reman

Cost Elements (Units in Each)							Fiscal Year 2022												Fiscal Year 2023												BALANCE
										Calendar Year 2022												Calendar Year 2023									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CFE																															
Prior Years Deliveries: 88																															
	1	2014	ARMY	35	35	0																									0
	1	2015	ARMY	53	53	0																									0
	1	2016	ARMY	64	64	0																									0
	1	2018	ARMY	48	48	0																									0
	1	2019	ARMY	48	48	0																									0
	1	2020	ARMY	49	25	24	5	4	4	5	5	1																			0
	1	2021	ARMY	50	0	50	-	-	-	-	-	-	-	-	2	3	3	3	3	3	1	4	3	4	4	4	4	3	3	3	0
	1	2022	ARMY	29	0	29						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	5	4	11
	1	2023	ARMY	35	0	35																		A -	-	-	-	-	-	-	35
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	**Item Number / Title [DODIC]:** A05111 / AH-64 Apache Block IIIA Reman

Cost Elements (Units in Each)							Fiscal Year 2024												Fiscal Year 2025												BALANCE
							Calendar Year 2024												Calendar Year 2025												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CFE																															
Prior Years Deliveries: 88																															
	1	2014	ARMY	35	35	0																									0
	1	2015	ARMY	53	53	0																									0
	1	2016	ARMY	64	64	0																									0
	1	2018	ARMY	48	48	0																									0
	1	2019	ARMY	48	48	0																									0
	1	2020	ARMY	49	49	0																									0
	1	2021	ARMY	50	50	0																									0
	1	2022	ARMY	29	18	11	4	4	3																						0
	1	2023	ARMY	35	0	35	-	-	-	3	3	4	3	2	3	2	3	4	4	4											0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	**Item Number / Title [DODIC]:** A05111 / AH-64 Apache Block IIIA Reman

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
					Initial				Reorder			
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	The Boeing Company - Mesa, AZ	48	98	144	0	11	13	24	0	6	12	18

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

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman
Program Elements for Code B Items: N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: 202	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Gross/Weapon System Cost *($ in Millions)*	1,763.516	169.460	192.230	169.218	-	169.218	-	-	-	-	Continuing	Continuing
Net Procurement (P-1) *($ in Millions)*	1,763.516	169.460	192.230	169.218	-	169.218	-	-	-	-	Continuing	Continuing
Total Obligation Authority *($ in Millions)*	**1,763.516**	**169.460**	**192.230**	**169.218**	**-**	**169.218**	**-**	**-**	**-**	**-**	**Continuing**	**Continuing**

Description:

AH-64E Reman is a complete remanufacture using a new airframe and meets all the requirements for Army and Joint interoperability goals for the future and adds significant combat capability while addressing obsolescence issues, ensuring the aircraft remains a viable combat multiplier beyond its lifecycle. The Army's only heavy attack helicopter, the AH-64E is fully digital with the latest technologies, adding significant combat capability to the aircraft. The AH-64E Apache is implementing an incremental design and fielding strategy as noted in the approved Capability Production Document (CPD). AH-64E Capability Version 1 includes Improved Drive and Propulsion System, Composite Main Rotor Blades (CMRB), Unmanned Aircraft System (UAS) Level III-IV Control, Improved Communications Suite, Improved Electronics / Modular Open Systems Approach, and Radar Electronics Unit (REU). Capability Version 4 includes Link 16, Air to Air to Ground (AAG) Video Relay, System Level Embedded Diagnostics (SLED), and provisions for Reduced-Size Crashworthy External Fuel Systems (RCEFS). Capability Version 6 includes Fire Control Radar (FCR) enhancements, Maritime Targeting Mode, Expanded Link-16, Image Blending, Multi-Mode Laser (MML), and Interactive Electronic Technical Manual (IETM) Upgrade. Production Lots 1-4 are Version 1 capable, Production Lots 5-8 are Version 4 capable, and Version 6 is included into the remaining Production Lots beginning with Production Lot 9. Upgrades are integrated as incremental block modifications. Other associated Government Furnished Equipment (GFE) such as the, Modernized Radar Frequency Interferometer (M-RFI), Radar Electronics Unit (REU), and Manned/Unmanned Teaming Extended Capability (MUMT-X) will be procured and provided in accordance with the basis of issue plan. The program addresses operational shortfalls identified during real-world combat missions, meets Apache Capability Production Document (CPD) requirements for modernization, and provides necessary training, initial spares, and Peculiar Ground Support Equipment (PGSE). AH-64E aircraft entered the fleet in 2012.

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman
Program Elements for Code B Items: N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: 202	

Exhibits Schedule				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-10	A05111 / AH-64 Apache Block IIIA Reman			433 / 1,763.516	50 / 169.460	29 / 192.230	35 / 169.218	- / -	35 / 169.218
P-40	**Total Gross/Weapon System Cost**			**433 / 1,763.516**	**50 / 169.460**	**29 / 192.230**	**35 / 169.218**	**- / -**	**35 / 169.218**

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

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

Justification:
FY23 Base procurement dollars in the amount of $693.879 millions supports Advance Procurement (AP), Full Rate Production (FRP) of AH-64E Apache Reman aircraft and associated support. This program was restructured in 2010 from the single AH-64E Apache (A05111) into two separate programs, AH-64E Apache Reman (A05111) and AH-64E Apache New Build (A05133).

FY22 Congressional decrease of $35M is due to $10M for Unit Cost Growth and $25M for Program Growth.

FY21 Advanced Procurement received a Congressional rescission of $5M.

The Apache Reman Program assumes a cost sharing with the New Build Program in accordance with the New Build Army Program Baseline (APB).

The current AH-64E Apache Remanufacture and New Build Army Procurement Objective (APO) is 791 Aircraft. The total AH-64E (Remanufacture and New Build) Army Acquisition Objective (AAO) is 812 Aircraft.

The Apache Reman Program quantities and associated funding include a Multi-year contract from FY17- FY21 and assumes approval for a subsequent Multi-year contract in FY22 through FY26. The Apache Reman and New Build Programs are planning continued production of aircraft through FY2027 to meet the Army Procurement Objective (APO).

Currently the total lead time (time from when first materials must be committed to aircraft delivery) is in excess of 24 months. The Cost Assessment and Program Evaluation (CAPE) Independent Cost Estimate (ICE) utilized 18% to 22% for Advance Procurement (AP). Each year's AP can be divided into 2 segments: 1) Government Furnished Equipment (GFE) such as engines, sensors and avionics and 2) Contractor Furnished Equipment (CFE). Material includes production components to support deliveries, provisioning material, pre-modification effort, and any potential termination liability costs. Long lead items include, but not limited to, such items as the Main Rotor Drive Shaft, Composite Main Rotor Blade, Improved Drive System, and Composite Stabilator IAW Financial Management Regulation (FMR) 7000.14-R.

The Economical Production Rate of 98 aircraft per year is the maximum capacity at Full Rate Production assuming a 1-8-5 shift. This requirement is driven primarily by the production rate associated with current fuselage tooling capabilities. In order to increase the 1-8-5 (single shift) production rate, additional tooling must be procured. Capacity can be expanded to 144 aircraft per year with additional investment.

Comments:
"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."

Exhibit P-10, Advance Procurement Requirements Analysis (*page 1 - Budget Funding Justification*): PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	**P-5 Number / Title:** A05111 / AH-64 Apache Block IIIA Reman

First System (2023) Award Date:	First System (2023) Completion Date:	Interval Between Systems:
July 2009	November 2011	1 Months

AH-64 Apache Block IIIA Reman	Production Leadtime *(Months)*	Prior Years *(Each)*	FY 2021 *(Each)*	FY 2022 *(Each)*	FY 2023 *(Each)*
Quantity		433	50	29	35

Cost Elements	When Required *(Months)*	Prior Years *($ M)*	FY 2021 *($ M)*	FY 2022 *($ M)*	FY 2023 *($ M)*
Other					
CFE	6	1,283.295	169.460	192.230	169.218
GFE	6	480.221	-	-	-
Total: Other		*1,763.516*	*169.460*	*192.230*	*169.218*
Total Advance Procurement/Obligation Authority		**1,763.516**	**169.460**	**192.230**	**169.218**

Exhibit P-10, Advance Procurement Requirements Analysis (*page 2 - Budget Funding Justification*): PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5757A05111 / AH-64 Apache Block IIIA Reman	**P-5 Number / Title:** A05111 / AH-64 Apache Block IIIA Reman

Cost Elements	QPA (Each)	FY 2023					
		Production Leadtime (Months)	Unit Cost ($ K)	Contract Forecast Date	2023 Qty (Each)	For FY	Total Cost Request ($ M)
Other							
CFE	26						169.218
GFE	26						-
Total: Other							*169.218*
Total Advance Procurement/Obligation Authority							**169.218**

Description:
Currently the total lead time (time from when first materials must be committed to aircraft delivery) is in excess of 24 months. The Cost Assessment and Program Evaluation (CAPE) Independent Cost Estimate (ICE) utilized 18% to 22% for Advance Procurement (AP) for single year contracts. Each year's AP can be divided into 2 segments: 1) Government Furnished Equipment (GFE) such as engines, sensors and avionics and 2) Contractor Furnished Equipment (CFE). Material includes production components to support deliveries, provisioning material, pre-modification effort, and any potential termination liability costs. Long lead items include the Main Rotor Drive Shaft, Composite Main Rotor Blade, Improved Drive System, and Composite Stabilator.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 5840A05133 / AH-64 Apache Block IIIB New Build

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: 437

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	79	2	-	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost *($ in Millions)*	2,356.544	69.154	-	-	-	-	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	286.807	-	-	-	-	-	-	-	-	-	Continuing	Continuing
Net Procurement (P-1) *($ in Millions)*	2,069.737	69.154	-	-	-	-	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	286.807	-	-	-	-	-	-	-	-	-	Continuing	Continuing
Total Obligation Authority *($ in Millions)*	**2,356.544**	**69.154**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	115.700	34.120	-	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Unit Cost *($ in Thousands)*	29,829.671	34,577.000	-	-	-	-	-	-	-	-	Continuing	Continuing

Description:

The AH-64E Apache New Build aircraft is the same configuration as the AH-64E Remanufacture aircraft and procured using the same contracts. While the AH-64E Remanufacture program inducts aging AH-64D aircraft into a remanufacture production line, the AH-64E New Build program assembles all new components resulting in completely new aircraft at the end of the production process. These aircraft are procured at a significantly higher cost because they include all new components. A new build Modernized Target Acquisition Designation Sight / Pilot Night Vision Sensor (MTADS/PNVS) system will be procured and provided with each aircraft. Other associated Government Furnished Equipment (GFE) such as the Fire Control Radar (FCR), Modernized Radar Frequency Interferometer (M-RFI), Radar Electronics Unit (REU), and Manned/Unmanned Teaming Extended Capability (MUMT-X) will be procured and provided in accordance with the basis of issue plan.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	2	-	-	-	-	-	-	-	-
	Total Obligation Authority	69.154	-	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**69.154**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 5840A05133 / AH-64 Apache Block IIIB New Build	
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: 437		

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)
P-5	A05133 / AH-64 Apache Block IIIB New Build	P-5a			79 / 2,356.544	2 / 69.154	- / -	- / -	- / -	- / -
P-40	**Total Gross/Weapon System Cost**				**79 / 2,356.544**	**2 / 69.154**	**- / -**	**- / -**	**- / -**	**- / -**

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

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

Justification:
This program was restructured in 2010 from the single AH-64E Apache (A05111) into two separate programs, AH-64E Apache Reman (A05111) and AH-64E Apache New Build (A05133).

The current AH-64E Apache Remanufacture and New Build Army Procurement Objective (APO) is 791 Aircraft. The total AH-64E (Remanufacture and New Build) Army Acquisition Objective (AAO) is 812 Aircraft.

Additionally, the New Build program funding includes Congressionally appropriated Overseas Contingency Operations (OCO) funding to procure New Build aircraft to fill aircraft shortages due to combat attrition and training loss. OCO funding does not provide advance procurement for long lead items for these aircraft.

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5840A05133 / AH-64 Apache Block IIIB New Build	**Item Number / Title [DODIC]:** A05133 / AH-64 Apache Block IIIB New Build

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	79	2	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	2,356.544	69.154	-	-	-	-
Less PY Advance Procurement *($ in Millions)*	286.807	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	2,069.737	69.154	-	-	-	-
Plus CY Advance Procurement *($ in Millions)*	286.807	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**2,356.544**	**69.154**	**-**	**-**	**-**	**-**
(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)*	29,829.671	34,577.000	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost *($ K)*	Qty *(Each)*	Total Cost *($ M)*	Unit Cost *($ K)*	Qty *(Each)*	Total Cost *($ M)*	Unit Cost *($ K)*	Qty *(Each)*	Total Cost *($ M)*	Unit Cost *($ K)*	Qty *(Each)*	Total Cost *($ M)*	Unit Cost *($ K)*	Qty *(Each)*	Total Cost *($ M)*	Unit Cost *($ K)*	Qty *(Each)*	Total Cost *($ M)*
Flyaway Cost																		
Recurring Cost																		
CFE(†)	19,315.494	77	1,487.293	19,688.500	2	39.377	-	-	-	-	-	-	-	-	-	-	-	-
GFE	9,283.662	77	714.842	12,051.500	2	24.103	-	-	-	-	-	-	-	-	-	-	-	-
Other Costs	-	-	125.669	-	-	4.984	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	18.740	-	-	0.690	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	*2,346.544*	-	-	*69.154*	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
Non-Recurring Cost	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	*10.000*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	**-**	**-**	***2,356.544***	**-**	**-**	***69.154***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Gross/Weapon System Cost	**29,829.671**	**79**	**2,356.544**	**34,577.000**	**2**	**69.154**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	2	-	-	-	-
	Total Obligation Authority	69.154	-	-	-	-
Total:	**Quantity**	**2**	**-**	**-**	**-**	**-**

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5840A05133 / AH-64 Apache Block IIIB New Build	**Item Number / Title [DODIC]:** A05133 / AH-64 Apache Block IIIB New Build
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Secondary Distribution	Total Obligation Authority	69.154	-	-	-	-

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 5840A05133 / AH-64 Apache Block IIIB New Build	**Item Number / Title [DODIC]:** A05133 / AH-64 Apache Block IIIB New Build

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
CFE		2013	The Boeing Company / Mesa	SS / FPIF	AMCOM	Mar 2014	Sep 2014	13	16,375.300	Y		Jul 2012
CFE		2014	The Boeing Company / Mesa	SS / FPIF	AMCOM	Sep 2014	Nov 2016	4	16,873.700	Y		Jul 2014
CFE		2017	The Boeing Company / Mesa	SS / FFP	AMCOM	Sep 2017	Dec 2019	8	17,850.380	Y		Apr 2015
CFE		2018	The Boeing Company / Mesa	SS / FFP	AMCOM	Aug 2018	Sep 2020	31	20,401.387	Y		Apr 2015
CFE		2019	The Boeing Company / Mesa	SS / FFP	AMCOM	Jan 2019	Feb 2022	18	16,573.778	Y		Apr 2015
CFE	✓	2021	The Boeing Company / Mesa	SS / FFP	AMCOM	Feb 2021	Dec 2022	2	19,688.500	Y		Apr 2015

Remarks:
Major Contractor Furnished Equipment (CFE) cost drivers include the Fuselage, Transmission, and Composite Main Rotor Blades. Government Furnished Equipment (GFE) includes engines, Embedded Global Positioning System Inertial Navigation Systems (EGIs), Radar Electronics Unit (REU), Modernized Target Acquisition Designation System (MTADS)/Pilot Night Vision System (PNVS) and Manned/Unmanned Teaming Extended Capability (MUMT-X). Other Cost includes Support Equipment, Peculiar Ground Support (PGSE), and Government Program Management Support.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 6771AA0005 / UH-60 Blackhawk M Model (MYP)

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	1,123	42	31	25	-	25	25	25	25	-	Continuing	Continuing
Gross/Weapon System Cost *($ in Millions)*	20,329.407	943.584	929.190	796.474	-	796.474	751.382	815.045	755.804	54.662	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	4,289.741	81.488	87.427	146.068	-	146.068	68.147	92.494	-	-	Continuing	Continuing
Net Procurement (P-1) *($ in Millions)*	16,039.666	862.096	841.763	650.406	-	650.406	683.235	722.551	755.804	54.662	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	4,371.229	87.427	146.068	68.147	-	68.147	92.494	58.170	-	-	Continuing	Continuing
Total Obligation Authority *($ in Millions)*	**20,410.895**	**949.523**	**987.831**	**718.553**	**-**	**718.553**	**775.729**	**780.721**	**755.804**	**54.662**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	18,102.767	22,466.286	29,973.871	31,858.960	-	31,858.960	30,055.280	32,601.800	30,232.160	-	Continuing	Continuing

Description:

The Utility Helicopter (UH)-60M Black Hawk Helicopter serves as the Army's utility helicopter for the near and midterm force and is in line with the Army's Modernization Strategy, the National Military Strategy, and the National Defense Strategy. The UH-60M Black Hawk is a digital networked platform with greater range and lift to support maneuver Commanders through air assault, general support command and control, and aeromedical evacuation. Full rate production for this new build helicopter began in 2007. The current UH-60 Army Acquisition Objective (AAO) is 2,135 which will be obtained by procuring a combination 1375 UH-60M and 760 UH-60L to UH-60V conversion models. The UH-60M Black Hawk, with the integrated Medical Evacuation (MEDEVAC) Mission Equipment Package (MEP) kit, provides day/night and adverse weather emergency evacuation of casualties. The integration of the MEDEVAC MEP into the UH-60M changes the nomenclature to the HH-60M.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	13	-	-	-	-	-	-	13	-
	Total Obligation Authority	314.663	-	0.006	-	0.006	-	-	393.018	54.662
ANG	Quantity	29	31	25	-	25	25	25	12	-
	Total Obligation Authority	634.860	987.831	718.547	-	718.547	775.729	780.721	362.786	-
Total: Secondary Distribution	**Quantity**	**42**	**31**	**25**	**-**	**25**	**25**	**25**	**25**	**-**
	Total Obligation Authority	**949.523**	**987.831**	**718.553**	**-**	**718.553**	**775.729**	**780.721**	**755.804**	**54.662**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 6771AA0005 / UH-60 Blackhawk M Model (MYP)	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-5	A05002 / UH-60 BLACK HAWK (MYP)	P-5a, P-21			1,123 / 20,329.407	42 / 943.584	31 / 929.190	25 / 796.474	- / -	25 / 796.474
P-40	**Total Gross/Weapon System Cost**				**1,123 / 20,329.407**	**42 / 943.584**	**31 / 929.190**	**25 / 796.474**	**- / -**	**25 / 796.474**

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

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

Justification:
FY 2023 Base procurement dollars in the amount of $718.553 million supports the procurement of 25 Aircraft (A/C) (10 UH-60M and 15 HH-60M).

FY 2022 Appropriations Conference Mark included 7 additional A/C, an increase of $211.5 million to procure 7 HH-60M A/C for the Army National Guard (ANRG), increasing the total to 31 A/C for FY 2022.

Note 1: The Multi-Year 10 (MY-X) contract versus 5 single year contracts for FY 2022 through FY 2026 is projected to yield a 14.6% cost avoidance ($417.061 million).

Note 2: FY 2021 was the final procurement year of the Program Office's multi-year nine (MY-IX) procurement contract with the vendor. The MY-IX contract had a much higher quantity of aircraft being procured, and allowed for lower aircraft unit cost. FY 2022 begins multi-year ten (MYX) procurement contract, with a significant decrease of aircraft being procured and therefore an increased unit cost. Given the MYX unit cost increase of 20%, the FY 2022 Enactment for +$211.5M supports procurement of seven HH-60M for the National Guard.

In accordance with section 1815 of the FY 2008 NDAA (Public Law (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.

As of the end of July 2021, a total of 15 aircraft have been procured using Blackhawk Exchange and Sales Team (BEST) proceeds. The Army Acquisition Executive approved BEST program avoids demilitarization and divestment cost and applies non-appropriated funding proceeds received from the divestiture of non-excess, obsolete H-60 aircraft towards the procurement of replacement H-60M aircraft. The authorities and policies to execute and administer the BEST program are provided in section 503, title 40, U.S. Code and Army Regulation 725-1.

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6771AA0005 / UH-60 Blackhawk M Model (MYP)	**Item Number / Title [DODIC]:** A05002 / UH-60 BLACK HAWK (MYP)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	1,123	42	31	25	-	25
Gross/Weapon System Cost *($ in Millions)*	20,329.407	943.584	929.190	796.474	-	796.474
Less PY Advance Procurement *($ in Millions)*	4,289.741	81.488	87.427	146.068	-	146.068
Net Procurement (P-1) *($ in Millions)*	16,039.666	862.096	841.763	650.406	-	650.406
Plus CY Advance Procurement *($ in Millions)*	4,371.229	87.427	146.068	68.147	-	68.147
Total Obligation Authority *($ in Millions)*	**20,410.895**	**949.523**	**987.831**	**718.553**	**-**	**718.553**
(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)*	18,102.767	22,466.286	29,973.871	31,858.960	-	31,858.960

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
Airframes/CFE(†)	12,440.129	1,127	14,020.025	14,960.119	42	628.325	20,345.645	31	630.715	22,242.920	25	556.073	-	-	-	22,242.920	25	556.073
Engines/Accessories	718.625	2,254	1,619.780	830.393	84	69.753	1,132.081	62	70.189	1,136.600	50	56.830	-	-	-	1,136.600	50	56.830
Avionics (GFE)	-	-	767.915	-	-	25.800	-	-	24.751	-	-	17.361	-	-	-	-	-	17.361
Other GFE	-	-	424.304	-	-	14.059	-	-	6.910	-	-	10.059	-	-	-	-	-	10.059
Subtotal: Recurring Cost	-	-	*16,832.024*	-	-	*737.937*	-	-	*732.565*	-	-	*640.323*	-	-	-	-	-	*640.323*
Non Recurring Cost																		
ECO (All FLYAWAY Components)	-	-	559.074	-	-	25.423	-	-	28.333	-	-	21.135	-	-	-	-	-	21.135
Other Costs (Mission Equipment)	-	-	807.451	-	-	45.382	-	-	47.948	-	-	31.305	-	-	-	-	-	31.305
Tooling Equipment	-	-	99.818	-	-	0.031	-	-	7.540	-	-	2.736	-	-	-	-	-	2.736
Other Nonrecurring Cost	-	-	88.602	-	-	0.777	-	-	0.632	-	-	0.507	-	-	-	-	-	0.507
Subtotal: Non Recurring Cost	-	-	*1,554.945*	-	-	*71.613*	-	-	*84.453*	-	-	*55.683*	-	-	-	-	-	*55.683*
Subtotal: Flyaway Cost	**-**	**-**	***18,386.969***	**-**	**-**	***809.550***	**-**	**-**	***817.018***	**-**	**-**	***696.006***	**-**	**-**	**-**	**-**	**-**	***696.006***
Support - Data Cost																		
Technical Publications	-	-	42.773	-	-	3.870	-	-	4.272	-	-	4.243	-	-	-	-	-	4.243
Subtotal: Support - Data Cost	**-**	**-**	***42.773***	**-**	**-**	***3.870***	**-**	**-**	***4.272***	**-**	**-**	***4.243***	**-**	**-**	**-**	**-**	**-**	***4.243***
Support - Fielding Cost																		

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: 6771AA0005 / UH-60 Blackhawk M Model (MYP)	Item Number / Title [DODIC]: A05002 / UH-60 BLACK HAWK (MYP)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Fielding	-	-	863.974	-	-	68.164	-	-	60.492	-	-	49.365	-	-	-	-	-	49.365
Subtotal: Support - Fielding Cost	**-**	**-**	***863.974***	**-**	**-**	***68.164***	**-**	**-**	***60.492***	**-**	**-**	***49.365***	**-**	**-**	**-**	**-**	**-**	***49.365***
Support - Program Management Cost																		
Government Management	-	-	521.502	-	-	30.956	-	-	31.194	-	-	33.775	-	-	-	-	-	33.775
Subtotal: Support - Program Management Cost	**-**	**-**	***521.502***	**-**	**-**	***30.956***	**-**	**-**	***31.194***	**-**	**-**	***33.775***	**-**	**-**	**-**	**-**	**-**	***33.775***
Support - Training Cost																		
Equipment	-	-	514.189	-	-	31.044	-	-	16.214	-	-	13.085	-	-	-	-	-	13.085
Subtotal: Support - Training Cost	**-**	**-**	***514.189***	**-**	**-**	***31.044***	**-**	**-**	***16.214***	**-**	**-**	***13.085***	**-**	**-**	**-**	**-**	**-**	***13.085***
Gross/Weapon System Cost	**18,102.767**	**1,123**	**20,329.407**	**22,466.286**	**42**	**943.584**	**29,973.871**	**31**	**929.190**	**31,858.960**	**25**	**796.474**	**-**	**-**	**-**	**31,858.960**	**25**	**796.474**

Remarks:
FY 2022 Appropriations Conference Mark included 7 additional A/C, an increase of $211.5 million to procure 7 HH-60M A/C for the Army National Guard (ANRG), increasing the total to 31 A/C for FY 2022.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	13	-	-	-	-
	Total Obligation Authority	314.663	-	0.006	-	0.006
ANG	Quantity	29	31	25	-	25
	Total Obligation Authority	634.860	987.831	718.547	-	718.547
Total: Secondary Distribution	**Quantity**	**42**	**31**	**25**	**-**	**25**
	Total Obligation Authority	**949.523**	**987.831**	**718.553**	**-**	**718.553**

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: 6771AA0005 / UH-60 Blackhawk M Model (MYP)	Item Number / Title [DODIC]: A05002 / UH-60 BLACK HAWK (MYP)

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Airframes/CFE(†)		2017	Sikorsky Aircraft / Stratford CT	SS / FFP	AMCOM	Jun 2017	Oct 2017	61	14,150.710	Y		Apr 2014
Airframes/CFE(†)		2018	Sikorsky Aircraft / Stratford CT	SS / FFP	AMCOM	Dec 2017	Jul 2018	57	14,706.193	Y		Apr 2014
Airframes/CFE(†)		2019	Sikorsky Aircraft / Stratford CT	SS / FFP	AMCOM	Dec 2018	Jul 2019	58	15,554.431	Y		Apr 2014
Airframes/CFE(†)		2020	Sikorsky Aircraft / Stratford CT	SS / FFP	AMCOM	Dec 2019	Jul 2020	74	14,867.365	Y		Apr 2014
Airframes/CFE(†)		2021	Sikorsky Aircraft / Stratford CT	SS / FFP	AMCOM	Dec 2020	Jul 2021	42	14,960.119	Y		Apr 2014
Airframes/CFE(†)		2022	Sikorsky Aircraft / Stratford CT	SS / FFP	AMCOM	Dec 2021	Jul 2022	31	20,345.645	Y		Aug 2018
Airframes/CFE(†)		2023	Sikorsky Aircraft / Stratford CT	SS / FFP	AMCOM	Dec 2022	Jul 2023	25	22,242.920	Y		Aug 2018

(†) indicates the presence of a P-21

Remarks:
The award of Multi-Year Procurement (MYP) X is scheduled for June 2022 and includes the purchase of a minimum 120 UH/HH-60M Black Hawk aircraft beginning in FY 2022 through FY 2026 under a single, five year Firm Fixed Price (FFP) contract. The MYP strategy is structured to achieve $417.1 Million Then Year dollars (TY$) in cost avoidance over the five year period. This multiyear contract for the procurement of Army UH-60M/HH-60M Black Hawk aircraft follows a completed (FY 2017 through FY 2021) MYP between the Army and Sikorsky Aircraft Corporation for UH-60M/HH-60M helicopters. The UH-60M/HH-60M aircraft that will be procured on the multiyear contract are essentially the same configuration as those being procured on the previous multiyear contract.

Delivery schedules appear to extend beyond the 12 month period for the following reasons:

Yearly procurements consist of UH-60M, HH-60M and supplemental aircraft. Each of the three are awarded on different contract line items. While each of these efforts deliver all of their aircraft within a 12 month span, they do not deliver within the same 12 month time period.

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6771AA0005 / UH-60 Blackhawk M Model (MYP)	**Item Number / Title [DODIC]:** A05002 / UH-60 BLACK HAWK (MYP)

Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018												BALANCE
							Calendar Year 2017												Calendar Year 2018												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																															
Prior Years Deliveries: 877																															
	1	2017	ARMY	61	0	61									A -	-	-	-	2	3	3	-	8	9	7	9	8	6	6	-	0
	1	2017	FMS (‡)	6	0	6									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
	1	**2017**	**Total**	**67**	**0**	**67**									**-**	**-**	**-**	**-**	**2**	**3**	**3**	**-**	**8**	**9**	**7**	**9**	**8**	**6**	**6**	**-**	**6**
	1	2018	ARMY	57	0	57															A -	-	-	-	-	-	-	4	5	6	42
	1	2018	FMS (‡)	19	0	19															A -	-	-	-	-	-	-	-	2	3	14
	1	**2018**	**Total**	**76**	**0**	**76**															**-**	**-**	**-**	**-**	**-**	**-**	**-**	**4**	**7**	**9**	**56**
	1	2019	ARMY	58	0	58																									58
	1	2019	FMS (‡)	12	0	12																									12
	1	**2019**	**Total**	**70**	**0**	**70**																									**70**
	1	2020	ARMY	74	0	74																									74
	1	2020	FMS (‡)	12	0	12																									12
	1	**2020**	**Total**	**86**	**0**	**86**																									**86**
	1	2021	ARMY	42	0	42																									42
	1	2021	FMS (‡)	6	0	6																									6
	1	**2021**	**Total**	**48**	**0**	**48**																									**48**
	1	2022	ARMY	31	0	31																									31
	1	2023	ARMY	25	0	25																									25
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6771AA0005 / UH-60 Blackhawk M Model (MYP)	**Item Number / Title [DODIC]:** A05002 / UH-60 BLACK HAWK (MYP)

Cost Elements (Units in Each)							Fiscal Year 2019												Fiscal Year 2020												BALANCE
							Calendar Year 2019															Calendar Year 2020									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																															
Prior Years Deliveries: 877																															
	1	2017	ARMY	61	61	0	-	-	-	-																					0
	1	2017	FMS (‡)	6	0	6	-	2	3	1																					0
	1	**2017**	**Total**	**67**	**61**	**6**	**-**	**2**	**3**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**0**
	1	2018	ARMY	57	15	42	8	6	5	4	5	4	3	3	4																0
	1	2018	FMS (‡)	19	5	14	-	-	-	1	2	2	4	3	2																0
	1	**2018**	**Total**	**76**	**20**	**56**	**8**	**6**	**5**	**5**	**7**	**6**	**7**	**6**	**6**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**0**
	1	2019	ARMY	58	0	58			A -	-	-	-	-	-	-	7	7	7	6	4	3	4	5	4	4	4	3				0
	1	2019	FMS (‡)	12	0	12			A -	-	-	-	-	-	-	-	-	-	-	2	2	1	1	2	2	1	1				0
	1	**2019**	**Total**	**70**	**0**	**70**			**-**	**-**	**-**	**-**	**-**	**-**	**-**	**7**	**7**	**7**	**6**	**6**	**5**	**5**	**6**	**6**	**6**	**5**	**4**	**-**	**-**	**-**	**0**
	1	2020	ARMY	74	0	74															A -	-	-	-	-	-	-	6	6	6	56
	1	2020	FMS (‡)	12	0	12															A -	-	-	-	-	-	-	1	1	3	7
	1	**2020**	**Total**	**86**	**0**	**86**															**-**	**-**	**-**	**-**	**-**	**-**	**-**	**7**	**7**	**9**	**63**
	1	2021	ARMY	42	0	42																									42
	1	2021	FMS (‡)	6	0	6																									6
	1	**2021**	**Total**	**48**	**0**	**48**																									**48**
	1	2022	ARMY	31	0	31																									31
	1	2023	ARMY	25	0	25																									25
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20

P-1 Line Item Number / Title: 6771AA0005 / UH-60 Blackhawk M Model (MYP)

Item Number / Title [DODIC]: A05002 / UH-60 BLACK HAWK (MYP)

Cost Elements (Units in Each)							Fiscal Year 2021												Fiscal Year 2022												BALANCE
							Calendar Year 2021												Calendar Year 2022												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																															
Prior Years Deliveries: 877																															
	1	2017	ARMY	61	61	0																									0
	1	2017	FMS (‡)	6	6	0																									0
	1	**2017**	**Total**	**67**	**67**	**0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**0**
	1	2018	ARMY	57	57	0																									0
	1	2018	FMS (‡)	19	19	0																									0
	1	**2018**	**Total**	**76**	**76**	**0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**0**
	1	2019	ARMY	58	58	0																									0
	1	2019	FMS (‡)	12	12	0																									0
	1	**2019**	**Total**	**70**	**70**	**0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**0**
	1	2020	ARMY	74	18	56	6	6	6	6	6	6	7	7	6																0
	1	2020	FMS (‡)	12	5	7	1	1	1	1	1	2	-	-	-																0
	1	**2020**	**Total**	**86**	**23**	**63**	**7**	**7**	**7**	**7**	**7**	**8**	**7**	**7**	**6**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**0**
	1	2021	ARMY	42	0	42			A -	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3		0
	1	2021	FMS (‡)	6	0	6			A2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		0
	1	**2021**	**Total**	**48**	**0**	**48**			**2**	**-**	**-**	**-**	**2**	**-**	**-**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**-**	**0**
	1	2022	ARMY	31	0	31															A -	-	-	-	-	-	-	2	2	2	25
	1	2023	ARMY	25	0	25																									25
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6771AA0005 / UH-60 Blackhawk M Model (MYP)	**Item Number / Title [DODIC]:** A05002 / UH-60 BLACK HAWK (MYP)

Cost Elements (Units in Each)							Fiscal Year 2023												Fiscal Year 2024												BALANCE
							Calendar Year 2023												Calendar Year 2024												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Airframes/CFE																															
Prior Years Deliveries: 877																															
	1	2017	ARMY	61	61	0																									0
	1	2017	FMS (‡)	6	6	0																									0
	1	**2017**	**Total**	**67**	**67**	**0**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0**
	1	2018	ARMY	57	57	0																									0
	1	2018	FMS (‡)	19	19	0																									0
	1	**2018**	**Total**	**76**	**76**	**0**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0**
	1	2019	ARMY	58	58	0																									0
	1	2019	FMS (‡)	12	12	0																									0
	1	**2019**	**Total**	**70**	**70**	**0**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0**
	1	2020	ARMY	74	74	0																									0
	1	2020	FMS (‡)	12	12	0																									0
	1	**2020**	**Total**	**86**	**86**	**0**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0**
	1	2021	ARMY	42	42	0																									0
	1	2021	FMS (‡)	6	6	0																									0
	1	**2021**	**Total**	**48**	**48**	**0**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0**
	1	2022	ARMY	31	6	25	2	2	3	3	3	3	3	3	3																0
	1	2023	ARMY	25	0	25			A -	-	-	-	-	-	-	3	3	3	3	3	3	3	3	1							0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6771AA0005 / UH-60 Blackhawk M Model (MYP)	**Item Number / Title [DODIC]:** A05002 / UH-60 BLACK HAWK (MYP)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
					Initial				Reorder			
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Sikorsky Aircraft - Stratford CT	24	40	51	8	3	6	9	0	3	6	9

Remarks:
Please refer to President's Budget 2017 Exhibit MYP-1, Multiyear Procurement Criteria, UH-60M/HH-60M Black Hawk Helicopter Multiyear IX (ARMY) for minimum and maximum procurement quantities under the Multi-Year IX Contract.

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.
"A" in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 6771AA0005 / UH-60 Blackhawk M Model (MYP)
Program Elements for Code B Items: N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Gross/Weapon System Cost *($ in Millions)*	4,371.229	87.427	146.068	68.147	-	68.147	92.494	58.170	-	-	Continuing	Continuing
Net Procurement (P-1) *($ in Millions)*	4,371.229	87.427	146.068	68.147	-	68.147	92.494	58.170	-	-	Continuing	Continuing
Total Obligation Authority *($ in Millions)*	**4,371.229**	**87.427**	**146.068**	**68.147**	**-**	**68.147**	**92.494**	**58.170**	**-**	**-**	**Continuing**	**Continuing**

Description:

The Advance Procurement (AP) for the UH-60M Black Hawk is separated into two main components: 1. Government Furnished Equipment (GFE) and 2. Contractor Furnished Equipment (CFE).

1. The AP GFE includes turbo-shaft engines, multi-function displays, Embedded Global Positioning System Inertial Navigation System (EGI), Heads Up Display (HUD) Aviation Night vision Imaging System (AN/AVS-7) communication and navigation avionics, radios, antennas, radio receiver transmitters, speech security equipment, UH-60M and MEDEVAC flyaway equipment. These GFE components are UH-60M direct procurement items. The AP GFE provided by PM Aviation Mission Systems and Architecture (AMSA) includes the AN/ARC-231 receiver/transmitter, Improved Data Modem (IDM), signal comparator, and Common Missile Warning System (CMWS). The AP Aircraft Survivability Equipment items procured by the Communications and Electronics Command (CECOM).

2. The CFE AP includes long lead production components to support deliveries, provisioning material, pre-modification effort, and any potential termination liability costs. Long lead items include, but not limited to, such items as the airframe and composite rotor blades.

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 6771AA0005 / UH-60 Blackhawk M Model (MYP)
Program Elements for Code B Items: N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A	

Exhibits Schedule				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-10	A05002 / UH-60 BLACK HAWK (MYP)			1,123 / 4,371.229	42 / 87.427	31 / 146.068	25 / 68.147	- / -	25 / 68.147
P-40	**Total Gross/Weapon System Cost**			**1,123 / 4,371.229**	**42 / 87.427**	**31 / 146.068**	**25 / 68.147**	**- / -**	**25 / 68.147**

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

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

Justification:
FY 2022 Appropriations Conference Mark included 7 additional A/C, an increase of $211.5 million to procure 7 HH-60M A/C for the Army National Guard (ANRG), increasing the total to 31 A/C for FY 2022.

Exhibit P-10, Advance Procurement Requirements Analysis (*page 1 - Budget Funding Justification*): PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6771AA0005 / UH-60 Blackhawk M Model (MYP)	**P-5 Number / Title:** A05002 / UH-60 BLACK HAWK (MYP)

First System (2023) Award Date:	First System (2023) Completion Date:	Interval Between Systems:
May 2005	June 2006	18 Months

UH-60 BLACK HAWK (MYP)	Production Leadtime (Months)	Prior Years (Each)	FY 2021 (Each)	FY 2022 (Each)	FY 2023 (Each)
Quantity		1,123	42	31	25

Cost Elements	When Required (Months)	Prior Years ($ M)	FY 2021 ($ M)	FY 2022 ($ M)	FY 2023 ($ M)
Other					
Prior Year	-	2,531.426	-	-	-
Airframe - Contractor Furnished Equipment (CFE)	6	867.911	31.330	72.310	22.061
Auxiliary Power Unit (APU)	3	47.132	2.858	-	-
Engines	3	729.549	43.997	42.184	34.608
Embedded GPS Inertial (EGI)	3	114.352	7.096	6.555	5.378
Heads Up Display (HUD) AVS-7	3	36.249	2.146	1.230	1.009
Avionics - Communication / Navigation	3	44.610	-	19.786	1.806
Blade Fold Kits	3	-	-	1.774	1.456
Seat Pallets	3	-	-	0.167	0.137
Multi-Function Operator Seat (MFOS)	3	-	-	0.652	0.535
Signal Data Converter (SDC)	3	-	-	1.410	1.157
Total: Other		*4,371.229*	*87.427*	*146.068*	*68.147*
Total Advance Procurement/Obligation Authority		**4,371.229**	**87.427**	**146.068**	**68.147**

Exhibit P-10, Advance Procurement Requirements Analysis (*page 2 - Budget Funding Justification*): PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6771AA0005 / UH-60 Blackhawk M Model (MYP)	**P-5 Number / Title:** A05002 / UH-60 BLACK HAWK (MYP)

Cost Elements	QPA (Each)	FY 2023					
		Production Leadtime (Months)	Unit Cost ($ K)	Contract Forecast Date	2023 Qty (Each)	For FY	Total Cost Request ($ M)
Other							
Prior Year	-						-
Airframe - Contractor Furnished Equipment (CFE)	1						22.061
Auxiliary Power Unit (APU)	1						-
Engines	2						34.608
Embedded GPS Inertial (EGI)	2						5.378
Heads Up Display (HUD) AVS-7	2						1.009
Avionics - Communication / Navigation	1						1.806
Blade Fold Kits	2						1.456
Seat Pallets	1						0.137
Multi-Function Operator Seat (MFOS)	2						0.535
Signal Data Converter (SDC)	1						1.157
Total: Other							*68.147*
Total Advance Procurement/Obligation Authority							**68.147**

Description:
The Advance procurement estimate was revised in support of the Multi-Year X contract award. The result was the addition of blade fold kits, seat pallets, avionics, multi-function operator seats and the signal data converter. Additionally, the Auxiliary Power Unit will transition from Government Furnished Equipment to Contractor Furnished Equipment for the MY X time frame and the long lead requirement will be included in the airframe advance procurement requirement.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 6773A05009 / UH-60 Black Hawk L and V Models

ID Code (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0607136A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	1,158	24	24	28	-	28	28	42	48	48	Continuing	Continuing
Gross/Weapon System Cost *($ in Millions)*	10,609.241	165.197	166.205	178.658	-	178.658	157.024	160.313	206.388	205.626	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	10,609.241	165.197	166.205	178.658	-	178.658	157.024	160.313	206.388	205.626	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**10,609.241**	**165.197**	**166.205**	**178.658**	**-**	**178.658**	**157.024**	**160.313**	**206.388**	**205.626**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	9,161.693	6,883.208	6,925.208	6,380.643	-	6,380.643	5,608.000	3,816.976	4,299.750	4,283.875	Continuing	Continuing

Description:

UH-60 A and L Models include UH-60 A to L conversions in FY16 through FY18 and UH-60L Digital, now designated as UH-60V. Production for UH-60V began in FY18. The UH-60 BLACKHAWK helicopter is the Army's utility helicopter for the near and midterm force. It is a twin engine, single rotor, four bladed utility helicopter used for air assault, general support, command & control, and aero-medical evacuations (MEDEVAC). The UH-60 is joint force capable, providing 24 hour/day support including operations at night and in adverse weather conditions. The UH-60 is designed to carry a crew of four plus eleven combat equipped troops or an external load up to 9,000 pounds. The UH-60 BLACK HAWK was fielded in 1978 as a replacement for the UH-1. From 1978 to 1988, UH-60As were produced. In 1989 production of UH-60Ls with improved engines and drive train began. In 2007, full rate production of UH-60Ms began which provided a digital cockpit, digital Flight Management System (FMS), improved engine, and wide-cord main rotor blades. The UH-60V provides an integrated digital map, integrated performance planning, common functionality and commonality of training with UH-60M. Re-allocation of UH-60 V kits will be accomplished during future Army prioritization efforts.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	1	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.883	-	-	-	-	-	-	-	-
ANG	Quantity	23	24	28	-	28	28	42	48	48
	Total Obligation Authority	158.314	166.205	178.658	-	178.658	157.024	160.313	206.388	205.626
Total: Secondary Distribution	**Quantity**	**24**	**24**	**28**	**-**	**28**	**28**	**42**	**48**	**48**
	Total Obligation Authority	**165.197**	**166.205**	**178.658**	**-**	**178.658**	**157.024**	**160.313**	**206.388**	**205.626**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 6773A05009 / UH-60 Black Hawk L and V Models	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0607136A
Line Item MDAP/MAIS Code: N/A		

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-3a	A05009 / UH-60 Black Hawk L and V Models (Operational)				1,158 / 10,609.241	24 / 165.197	24 / 166.205	28 / 178.658	- / -	28 / 178.658
P-40	**Total Gross/Weapon System Cost**				**1,158 / 10,609.241**	**24 / 165.197**	**24 / 166.205**	**28 / 178.658**	**- / -**	**28 / 178.658**

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-3a	A05009 / UH-60 Black Hawk L and V Models (Operational)				28 / 157.024	42 / 160.313	48 / 206.388	48 / 205.626	Continuing	Continuing
P-40	**Total Gross/Weapon System Cost**				**28 / 157.024**	**42 / 160.313**	**48 / 206.388**	**48 / 205.626**	**Continuing**	**Continuing**

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

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

Justification:
FY23 base procurement dollars in the amount of $178.658 million will procure 28 UH-60V Kits.

The current H-60 Black Hawk Army Acquisition Objective (AAO) is 2,135 which is obtained by procuring a combination of 1,375 new 60M and 760 Recapitalized (A/L/V) aircraft.

Re-allocation of UH-60 V kits will be accomplished during future Army prioritization efforts.

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.

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6773A05009 / UH-60 Black Hawk L and V Models	**Modification Number / Title:** A05009 / UH-60 Black Hawk L and V Models

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	1,158	24	24	28	-	28	28	42	48	48	Continuing	Continuing
Gross/Weapon System Cost *($ in Millions)*	10,609.241	165.197	166.205	178.658	-	178.658	157.024	160.313	206.388	205.626	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	10,609.241	165.197	166.205	178.658	-	178.658	157.024	160.313	206.388	205.626	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**10,609.241**	**165.197**	**166.205**	**178.658**	**-**	**178.658**	**157.024**	**160.313**	**206.388**	**205.626**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	9,161.693	6,883.208	6,925.208	6,380.643	-	6,380.643	5,608.000	3,816.976	4,299.750	4,283.875	Continuing	Continuing

Description:

UH-60 A and L Models includes UH-60 A to L conversions and the UH-60L Digital conversions, now designated as UH-60V.

UH-60V aircraft cost includes all digital components and their associated cost, as well as Engineering Changes, Systems Engineering and Program Management, Trainers, Data and Fielding.

Any decrements in FY23 and out will result in less 60V kits being procured.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	1	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.883	-	-	-	-	-	-	-	-
ANG	Quantity	23	24	28	-	28	28	42	48	48
	Total Obligation Authority	158.314	166.205	178.658	-	178.658	157.024	160.313	206.388	205.626
Total: Secondary Distribution	**Quantity**	**24**	**24**	**28**	**-**	**28**	**28**	**42**	**48**	**48**
	Total Obligation Authority	**165.197**	**166.205**	**178.658**	**-**	**178.658**	**157.024**	**160.313**	**206.388**	**205.626**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6773A05009 / UH-60 Black Hawk L and V Models	**Modification Number / Title:** A05009 / UH-60 Black Hawk L and V Models
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH-60 A and L	**Modification Type:** Operational	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Procurement												
Modification Item 1 of 2: UH-60A to UH-60L Conversions												
A Kits												
Recurring												
Other	1,109 / 10,271.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,109 / 10,271.250
Subtotal: Recurring	*1,109 / 10,271.250*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*1,109 / 10,271.250*
Subtotal: UH-60A to UH-60L Conversions	*1,109 / 10,271.250*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*1,109 / 10,271.250*
Modification Item 2 of 2: UH-60V												
A Kits												
Recurring												
Other	49 / 298.969	24 / 146.774	24 / 156.067	28 / 167.318	- / -	28 / 167.318	28 / 146.043	42 / 144.357	48 / 188.754	48 / 188.451	Continuing	Continuing
Subtotal: Recurring	*49 / 298.969*	*24 / 146.774*	*24 / 156.067*	*28 / 167.318*	- / -	*28 / 167.318*	*28 / 146.043*	*42 / 144.357*	*48 / 188.754*	*48 / 188.451*	*Continuing*	*Continuing*
Subtotal: UH-60V	*49 / 298.969*	*24 / 146.774*	*24 / 156.067*	*28 / 167.318*	- / -	*28 / 167.318*	*28 / 146.043*	*42 / 144.357*	*48 / 188.754*	*48 / 188.451*	*Continuing*	*Continuing*
Subtotal: Procurement, All Modification Items	*1,158 / 10,570.219*	*24 / 146.774*	*24 / 156.067*	*28 / 167.318*	- / -	*28 / 167.318*	*28 / 146.043*	*42 / 144.357*	*48 / 188.754*	*48 / 188.451*	*Continuing*	*Continuing*
Installation												
Modification Item 1 of 2: UH-60A to UH-60L Conversions	1,110 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,110 / -
Modification Item 2 of 2: UH-60V	49 / 39.022	24 / 18.423	24 / 10.138	28 / 11.340	- / -	28 / 11.340	28 / 10.981	42 / 15.956	48 / 17.634	48 / 17.175	Continuing	Continuing
Subtotal: Installation	*1,159 / 39.022*	*24 / 18.423*	*24 / 10.138*	*28 / 11.340*	- / -	*28 / 11.340*	*28 / 10.981*	*42 / 15.956*	*48 / 17.634*	*48 / 17.175*	*Continuing*	*Continuing*
Total												
Total Cost (Procurement + Support + Installation)	**10,609.241**	**165.197**	**166.205**	**178.658**	**-**	**178.658**	**157.024**	**160.313**	**206.388**	**205.626**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6773A05009 / UH-60 Black Hawk L and V Models	**Modification Number / Title:** A05009 / UH-60 Black Hawk L and V Models

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

Modification Item 1 of 2: UH-60A to UH-60L Conversions

Manufacturer Information

Manufacturer Name: Corpus Christi Army Depot | Manufacturer Location: Corpus Christi Army Depot

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	1,080 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,080 / 0.000
FY 2021	30 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.000
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,110 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,110 / 0.000

Installation Schedule

		FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027					
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90
Out	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6773A05009 / UH-60 Black Hawk L and V Models	**Modification Number / Title:** A05009 / UH-60 Black Hawk L and V Models

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

Modification Item 2 of 2: UH-60V

Manufacturer Information

Manufacturer Name: Prototype Integration Facility/Northrop Grumman/CCAD

Manufacturer Location: Huntsville AL/ Woodland Hills CA/Corpus Christi TX

Administrative Leadtime *(in Months)*: 1

Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: Various

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	24 / 21.882	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 21.882
FY 2021	25 / 17.140	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 17.140
FY 2022	- / -	24 / 18.423	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 18.423
FY 2023	- / -	- / -	24 / 10.138	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 10.138
FY 2024	- / -	- / -	- / -	28 / 11.340	- / -	28 / 11.340	- / -	- / -	- / -	- / -	- / -	28 / 11.340
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	28 / 10.981	- / -	- / -	- / -	- / -	28 / 10.981
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 15.956	- / -	- / -	- / -	42 / 15.956
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 17.634	- / -	- / -	48 / 17.634
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 17.175	Continuing	Continuing
Total	49 / 39.022	24 / 18.423	24 / 10.138	28 / 11.340	- / -	28 / 11.340	28 / 10.981	42 / 15.956	48 / 17.634	48 / 17.175	Continuing	Continuing

Installation Schedule

		FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027					
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	49	6	6	6	6	6	6	6	6	6	6	8	8	6	6	8	8	10	10	11	11	12	12	12	12	12	12	12	12	466	757
Out	24	6	6	6	7	6	6	6	6	6	6	6	6	6	6	8	8	6	6	8	8	10	10	11	11	12	12	12	12	514	757

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A / **Other Related Program Elements:** 0607137A
Line Item MDAP/MAIS Code: N/A	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	373	11	8	6	-	6	6	6	6	6	Continuing	Continuing
Gross/Weapon System Cost *($ in Millions)*	10,423.398	446.408	333.490	187.708	-	187.708	198.929	220.115	206.447	205.694	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	687.010	46.186	18.372	18.559	-	18.559	18.749	18.936	-	-	Continuing	Continuing
Net Procurement (P-1) *($ in Millions)*	9,736.388	400.222	315.118	169.149	-	169.149	180.180	201.179	206.447	205.694	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	733.196	18.372	18.559	18.749	-	18.749	18.936	-	-	-	Continuing	Continuing
Total Obligation Authority *($ in Millions)*	**10,469.584**	**418.594**	**333.677**	**187.898**	**-**	**187.898**	**199.116**	**201.179**	**206.447**	**205.694**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	27,944.767	40,582.545	41,686.250	31,284.667	-	31,284.667	33,154.833	36,685.833	34,407.833	34,282.333	Continuing	Continuing

Description:

The CH-47F Chinook is a twin-turbine, tandem-rotor, heavy-lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the CH-47F Improved Cargo helicopter is an essential component of the Army's Joint All Domain Battle framework. The CH-47F and MH-47G helicopters perform over 95% of the Army's heavy lift missions up to 25,000 pounds. The Chinook fleet has multiple missions including: transport troops (air assault), supply and resupply, weapons, equipment and other cargo operations. Operating throughout theater in combat, combat support, and combat service support roles. The CH-47F is vital to Overseas Contingency Operations and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief, and search and rescue. These aircraft are fielded to heavy lift companies contained within Combat Aviation Brigades and Special Operations Aviation. The CH-47F and MH-47G aircraft is expected to remain the Army's heavy lift helicopter for the next several decades. To maintain the Chinook, the Army's only heavy-lift cargo helicopter, the CH-47F Block II program will insert critical and affordable technologies into the Chinook fleet to affordably maintain the platform's operational capabilities while continuing to meet the Warfighter requirements. Key improvements include a strengthened airframe which introduces commonality with the MH-47G and improvements to rotor, fuel and electrical systems which will improve safety and reliability for the aircraft. Along with providing a significantly increased capability to the field, the program includes provisions for anticipated future upgrades as well as weight and cost savings initiatives to ensure the Army has a platform with the flexibility and performance needed to meet the needs of Joint All Domain Operations until a Heavy Future Vertical Lift variant is fielded.

The CH-47F Block I PM is fielding and training Combat Aviation Brigades (CABs) and NG/USAR units using a New Equipment Training team.

The H-47 Block II PM ReNew and New Build programs rebuild or replace 73 MH-47G Block I Special Operations Aircraft and 465 CH-47F Block I aircraft to the Block II configuration.

PM Cargo procurement lines provide the common portion of funding for the Special Operations Aircraft, MH-47G. CH-47F Block II Product Office, in conjunction with Technology Applications Program Office (TAPO), is replacing the aging fleet of MH-47G aircraft that has airframe components dating back more than 45 years. The MH-47G program, while complementary to the CH-47F Block II program, is a separately managed Technology Applications Program Office (TAPO) ARSOAC program with a stand-alone Acquisition Strategy. The current Army Acquisition Objective (AAO) is 535 aircraft.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	11	8	6	-	6	6	6	6	6
	Total Obligation Authority	418.594	333.677	187.898	-	187.898	199.116	201.179	206.447	205.694
Total:	**Quantity**	**11**	**8**	**6**	**-**	**6**	**6**	**6**	**6**	**6**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0607137A
Line Item MDAP/MAIS Code: N/A		

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	418.594	333.677	187.898	-	187.898	199.116	201.179	206.447	205.694

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0607137A
Line Item MDAP/MAIS Code: N/A		

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-5	A05008 / CH-47 NEW BUILD			278	200 / 5,595.777	1 / 50.472	- / -	- / -	- / -	- / -
P-5	A05105 / CH-47 SLEP	P-5a, P-21			173 / 4,827.621	10 / 395.936	8 / 333.490	6 / 187.708	- / -	6 / 187.708
P-40	**Total Gross/Weapon System Cost**				**373 / 10,423.398**	**11 / 446.408**	**8 / 333.490**	**6 / 187.708**	**- / -**	**6 / 187.708**

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

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

Justification:
FY 2023 Base procurement dollars in the amount of $187.898 million total.

FY 2023 Base procurement dollars in the amount of $181.172 million supports only Army common material funding for 6 MH-47G variant ReNew aircraft in the amount of $150.031 million, Advance Procurement supporting FY 2024 production quantities 6 MH-47G variant ReNew aircraft in the amount of $18.749 million, and retrofit funding in the amount of $12.392 million for previously delivered MH-47G variant ReNew aircraft.

FY 2023 Base procurement dollars in the amount of $6.726 million supports the CH-47F Digital Cockpit Support & Sustainment.

FY 2022 Enacted position provided $29 million of Advance Procurement to support the F Block II upgrade. These funds were realigned to the Base to execute the additional procurement.

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

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: 6775A05101 / CH-47 Helicopter	Item Number / Title [DODIC]: A05008 / CH-47 NEW BUILD
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 278	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	200	1	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	5,595.777	50.472	-	-	-	-
Less PY Advance Procurement *($ in Millions)*	32.759	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	5,563.018	50.472	-	-	-	-
Plus CY Advance Procurement *($ in Millions)*	32.759	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**5,595.777**	**50.472**	**-**	**-**	**-**	**-**
(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)*	27,978.885	50,472.000	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
Airframes/CFE	20,737.174	195	4,043.749	34,700.000	1	34.700	-	-	-	-	-	-	-	-	-	-	-	-
Engine/Accessories	1,432.530	362	518.576	1,901.500	2	3.803	-	-	-	-	-	-	-	-	-	-	-	-
CFE Avionics	-	-	193.501	-	-	2.473	-	-	-	-	-	-	-	-	-	-	-	-
GFE	-	-	359.704	-	-	5.865	-	-	-	-	-	-	-	-	-	-	-	-
ECO (Flyaway)	-	-	82.513	-	-	1.499	-	-	-	-	-	-	-	-	-	-	-	-
Nonrecurring/SEPM/ FDT	-	-	150.310	-	-	2.132	-	-	-	-	-	-	-	-	-	-	-	-
PSE	-	-	22.019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Publications/Tech Data	-	-	8.725	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ECO (Support Items)	-	-	4.253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Post Deployment Software Support	-	-	83.862	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	3.565	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Airframes/CFE MH-47G SOA Aircraft (Army Common)	25,000.000	5	125.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	*5,595.777*	-	-	*50.472*	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	**-**	**-**	***5,595.777***	**-**	**-**	***50.472***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Gross/Weapon System Cost	**27,978.885**	**200**	**5,595.777**	**50,472.000**	**1**	**50.472**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter	**Item Number / Title [DODIC]:** A05008 / CH-47 NEW BUILD
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:** 278	

Remarks:
FY20 funded the Army common portion of a combat loss replacement of an MH-47G.
FY21 funds the complete replacement of a CH-47F combat loss replacement.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	1	-	-	-	-
	Total Obligation Authority	50.472	-	-	-	-
Total: Secondary Distribution	**Quantity**	**1**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**50.472**	**-**	**-**	**-**	**-**

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: 6775A05101 / CH-47 Helicopter	Item Number / Title [DODIC]: A05105 / CH-47 SLEP
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	173	10	8	6	-	6
Gross/Weapon System Cost *($ in Millions)*	4,827.621	395.936	333.490	187.708	-	187.708
Less PY Advance Procurement *($ in Millions)*	654.251	46.186	18.372	18.559	-	18.559
Net Procurement (P-1) *($ in Millions)*	4,173.370	349.750	315.118	169.149	-	169.149
Plus CY Advance Procurement *($ in Millions)*	700.437	18.372	18.559	18.749	-	18.749
Total Obligation Authority *($ in Millions)*	**4,873.807**	**368.122**	**333.677**	**187.898**	**-**	**187.898**
(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)*	27,905.324	39,593.600	41,686.250	31,284.667	-	31,284.667

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
CH-47D to CH-47F Conversion	28,909.695	154	4,452.093	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-47G Block I to Block II Army Common Funding(†)	18,625.737	19	353.889	27,211.833	6	163.271	27,265.000	6	163.590	28,098.333	6	168.590	-	-	-	28,098.333	6	168.590
MH-47G Block II Retrofits	-	-	-	-	-	15.665	-	-	-	-	-	12.392	-	-	-	-	-	12.392
Subtotal: Recurring Cost	-	-	*4,805.982*	-	-	*178.936*	-	-	*163.590*	-	-	*180.982*	-	-	-	-	-	*180.982*
Subtotal: Flyaway Cost	**-**	**-**	***4,805.982***	**-**	**-**	***178.936***	**-**	**-**	***163.590***	**-**	**-**	***180.982***	**-**	**-**	**-**	**-**	**-**	***180.982***
Hardware Cost																		
Non Recurring Cost																		
CH-47 Block I to Block II	-	-	21.639	47,000.000	4	188.000	44,314.500	2	88.629	-	-	-	-	-	-	-	-	-
CH-47 Avionics (Advanced Procurement)	-	-	-	-	-	11.600	-	-	11.600	-	-	-	-	-	-	-	-	-
CH-47 Airframe (Advanced Procurement)	-	-	-	-	-	17.400	-	-	17.400	-	-	-	-	-	-	-	-	-
CH47F Block II Logistics	-	-	-	-	-	-	-	-	32.630	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	*21.639*	-	-	*217.000*	-	-	*150.259*	-	-	-	-	-	-	-	-	-

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: 6775A05101 / CH-47 Helicopter	Item Number / Title [DODIC]: A05105 / CH-47 SLEP
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Subtotal: Hardware Cost	-	-	21.639	-	-	217.000	-	-	150.259	-	-	-	-	-	-	-	-	-
Software Cost																		
Non Recurring Cost																		
CH-47F Digital Cockpit Support & Sustainment	-	-	-	-	-	-	-	-	19.641	-	-	6.726	-	-	-	-	-	6.726
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	19.641	-	-	6.726	-	-	-	-	-	6.726
Subtotal: Software Cost	-	-	-	-	-	-	-	-	19.641	-	-	6.726	-	-	-	-	-	6.726
Gross/Weapon System Cost	**27,905.324**	**173**	**4,827.621**	**39,593.600**	**10**	**395.936**	**41,686.250**	**8**	**333.490**	**31,284.667**	**6**	**187.708**	**-**	**-**	**-**	**31,284.667**	**6**	**187.708**

Remarks:
The CH-47F Block II procurement costs, MH-47G Block II Army common procurement costs, and MH-47G Block II retrofits costs share this funding line. The MH-47G Block II Army Common funding unit cost is not the same as the CH-47F Block II unit cost. The retrofit common component procurement cost support some previously delivered lots of MH-47G Block II aircraft. The combination of the three different procurement cost and quantities on one line cause incorrect gross weapon system cost.

FY2023 Non Recurring Cost: Funding to support retrofit of some previously delivered MH-47G Block II aircraft with fully Block II Common Components is included in FY 2023 in the amount of $12.392 million, this additional procurement activity increases the Gross Weapon System Cost top line and Unit Cost in FY 2023. This funding is identified under cost element titled MH-47G Block II Retrofits. Non Recurring retrofit cost also identified in FY 2021. No retrofit costs in FY 2022.

FY 22 Congressional Add of $169.900 million: FY22 Congressional add of $140.900 million (in conjunction with FY21 AP of $29.000 million) is procuring two (2) CH-47F Block II production aircraft. The remaining Congressional Add $29.000 million is AP for FY23 production aircraft.

FY 21 Congressional Add of $189.000 million: FY21 Congressional add of $160.000 million (in conjunction with FY20 AP of $28.000 million) is procuring four (4) CH-47F Block II production aircraft. The remaining Congressional Add $29.000 million is AP for FY22 production aircraft and is on contract.
** The congressional add plus the original funding for the Army Common portion of the MH-47Gs FY 21 funding $178.936 million was for the partial requirement of 6 MH-47Gs.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	10	8	6	-	6
	Total Obligation Authority	368.122	333.677	187.898	-	187.898
Total: Secondary Distribution	**Quantity**	**10**	**8**	**6**	**-**	**6**
	Total Obligation Authority	**368.122**	**333.677**	**187.898**	**-**	**187.898**

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: 6775A05101 / CH-47 Helicopter	Item Number / Title [DODIC]: A05105 / CH-47 SLEP

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
MH-47G Block I to Block II Army Common Funding(†)		2018	Boeing / Philadephia PA	SS / CPFF	Fort Eustis	Jul 2018	Aug 2020	4	18,000.000	Y		Nov 2016
MH-47G Block I to Block II Army Common Funding(†)		2019	Boeing / Philadephia PA	SS / CPFF	Fort Eustis	Jun 2019	Aug 2021	7	18,594.286	Y		Nov 2016
MH-47G Block I to Block II Army Common Funding(†)		2020	Boeing / Philadephia PA	SS / FFP	Fort Eustis	Jun 2020	Aug 2022	8	18,966.125	Y		Nov 2016
MH-47G Block I to Block II Army Common Funding(†)		2021	Boeing / Philadephia PA	SS / CPFF	Fort Eustis	Nov 2021	Aug 2023	6	27,211.833	Y		Nov 2016

(†) indicates the presence of a P-21

Remarks:
MH-47G the FY 2021 airframe unit cost increased due to fewer H-47 procurements beginning in FY 2021. MH-47G Army Common cost increased production line costs in FY 2021.

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter	**Item Number / Title [DODIC]:** A05105 / CH-47 SLEP

Cost Elements (Units in Each)							Fiscal Year 2018												Fiscal Year 2019												BALANCE
										Calendar Year 2018												Calendar Year 2019									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
MH-47G Block I to Block II Army Common Funding																															
	1	2018	ARMY	4	0	4										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
	1	2019	ARMY	7	0	7																					A -	-	-	-	7
	1	2020	ARMY	8	0	8																									8
	1	2021	ARMY	6	0	6																									6
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter	**Item Number / Title [DODIC]:** A05105 / CH-47 SLEP

Cost Elements (Units in Each)							Fiscal Year 2020												Fiscal Year 2021												BALANCE
							Calendar Year 2020												Calendar Year 2021												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
MH-47G Block I to Block II Army Common Funding																															
	1	2018	ARMY	4	0	4	-	-	-	-	-	-	-	-	-	-	4														0
	1	2019	ARMY	7	0	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	0
	1	2020	ARMY	8	0	8									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
	1	2021	ARMY	6	0	6																									6
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter	**Item Number / Title [DODIC]:** A05105 / CH-47 SLEP

Cost Elements (Units in Each)							Fiscal Year 2022												Fiscal Year 2023												BALANCE
							Calendar Year 2022												Calendar Year 2023												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
MH-47G Block I to Block II Army Common Funding																															
	1	2018	ARMY	4	4	0																									0
	1	2019	ARMY	7	7	0																									0
	1	2020	ARMY	8	0	8	-	-	-	-	-	-	-	-	-	-	4	4													0
	1	2021	ARMY	6	0	6		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter	**Item Number / Title [DODIC]:** A05105 / CH-47 SLEP

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
					Initial				Reorder			
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Boeing - Philadephia PA	18	18	72	11	10	25	35	0	0	0	0

Remarks:
All PM Cargo procurement funding and production schedules currently support the Army common portion of funding to rebuild or replace 73 MH-47G Block I Special Operations Aircraft.

CH-47F Block II Product Office, in conjunction with Technology Applications Program Office (TAPO), is replacing the aging fleet of MH-47G aircraft that has airframe components dating back more than 45 years. The MH-47G program, while complementary to the CH-47F Block II program, is a separately managed Technology Applications Program Office (TAPO) ARSOAC program with a stand-alone Acquisition Strategy.

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

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter
Program Elements for Code B Items: N/A	**Other Related Program Elements:** 0607137A
Line Item MDAP/MAIS Code: N/A	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Gross/Weapon System Cost *($ in Millions)*	733.196	18.372	18.559	18.749	-	18.749	18.936	-	-	-	Continuing	Continuing
Net Procurement (P-1) *($ in Millions)*	733.196	18.372	18.559	18.749	-	18.749	18.936	-	-	-	Continuing	Continuing
Total Obligation Authority *($ in Millions)*	**733.196**	**18.372**	**18.559**	**18.749**	**-**	**18.749**	**18.936**	**-**	**-**	**-**	**Continuing**	**Continuing**

Description:

The CH-47F Chinook is a twin-turbine, tandem-rotor, heavy lift transport helicopter with a useful load of up to 25,000 pounds.

To maintain the Chinook, the Army's only heavy-lift cargo helicopter, the CH-47F Block II program will insert critical and affordable technologies into the Chinook fleet to affordably maintain the platform's operational capabilities while continuing to meet the Warfighter requirements. Key improvements include the Advanced Chinook Rotor Blade, upgraded transmissions and rotor heads, and strengthened airframes to increase payload across the full spectrum of operational environments. Other improvements include an upgraded electrical system and higher capacity fuel tanks along with aircraft software updates. The 11 September 2015 Program Delegation Acquisition Decision Memorandum (ADM) designated the CH-47F Block II as an Acquisition Category (ACAT) 1C program with the Milestone Decision Authority (MDA) delegated to the Secretary of the Army. The EMD Phase began in 2017 following the Milestone (MS) B decision in July 2017.

PM Cargo procurement lines provide the common portion of funding for the Special Operations Aircraft, MH-47G. CH-47F Block II in conjunction with Technology Applications Program Office (TAPO) is replacing the aging fleet of MH-47G aircraft that has airframe components dating back more than 45 years. The MH-47G program, while complementary to the Block II program, is a separately managed Technology Applications Program Office (TAPO) ARSOAC program with a stand-alone Acquisition Strategy. The current Army Acquisition Objective (AAO) is 550 aircraft.

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter
Program Elements for Code B Items: N/A	**Other Related Program Elements:** 0607137A
Line Item MDAP/MAIS Code: N/A	

Exhibits Schedule				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-10	A05105 / CH-47 SLEP			173 / 700.437	10 / 18.372	8 / 18.559	6 / 18.749	- / -	6 / 18.749
P-40	**Total Gross/Weapon System Cost**			**373 / 733.196**	**11 / 18.372**	**8 / 18.559**	**6 / 18.749**	**- / -**	**6 / 18.749**

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

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

Justification:
FY 2023 Advanced procurement dollars in the amount of $18.749 million will procure the MH-47G common portion of the airframe advance procurement requirement.

FY 2022 Enacted position provided $29 million of Advance Procurement to support the F Block II upgrade. These funds were realigned to the Base to execute the additional procurement.

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

Exhibit P-10, Advance Procurement Requirements Analysis (*page 1 - Budget Funding Justification*): PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter	**P-5 Number / Title:** A05105 / CH-47 SLEP

First System (2023) Award Date:	First System (2023) Completion Date:	Interval Between Systems:
December 2003	December 2006	2 Months

CH-47 SLEP	Production Leadtime *(Months)*	Prior Years *(Each)*	FY 2021 *(Each)*	FY 2022 *(Each)*	FY 2023 *(Each)*
Quantity		173	10	8	6

Cost Elements	When Required *(Months)*	Prior Years *($ M)*	FY 2021 *($ M)*	FY 2022 *($ M)*	FY 2023 *($ M)*
CFE					
MH-47 Avionics	16	292.660	7.349	7.424	7.500
MH-47 Airframe	14	379.777	11.023	11.135	11.249
CH-47 Avionics	-	11.200	-	-	-
CH-47 Airframe	-	16.800	-	-	-
Total: CFE		*700.437*	*18.372*	*18.559*	*18.749*
Total Advance Procurement/Obligation Authority		**700.437**	**18.372**	**18.559**	**18.749**

Exhibit P-10, Advance Procurement Requirements Analysis (*page 2 - Budget Funding Justification*): PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	**P-1 Line Item Number / Title:** 6775A05101 / CH-47 Helicopter	**P-5 Number / Title:** A05105 / CH-47 SLEP

Cost Elements	QPA (Each)	FY 2023					
		Production Leadtime (Months)	Unit Cost ($ K)	Contract Forecast Date	2023 Qty (Each)	For FY	Total Cost Request ($ M)
CFE							
MH-47 Avionics	1						7.500
MH-47 Airframe	1						11.249
CH-47 Avionics	-						-
CH-47 Airframe	-						-
Total: CFE							*18.749*
Total Advance Procurement/Obligation Authority							**18.749**

Description:
N/A

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	**P-1 Line Item Number / Title:** 9990A19900 / Spectrum Army SUAS
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A / **Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	322.580	60.134	-	-	-	-	-	-	-	-	-	382.714
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	322.580	60.134	-	-	-	-	-	-	-	-	-	382.714
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**322.580**	**60.134**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**382.714**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Commercial Spectrum Enhancement Act (CSEA) Title II, Public Law 108-494, dated December 23, 2004, established the Spectrum Relocation Fund (SRF) to provide Federal agencies a mechanism to recover the costs associated with relocating communication systems from spectrum bands which were auctioned for commercial purposes.

- The SRF is funded with proceeds from Federal Communications Commission (FCC) conducted auctions of spectrum licenses.
- SRF funds have an indefinite obligation period and remain available until expended (X Year).
- The Department of Defense (DoD) Information Officer (CIO) executes oversight of the DoD spectrum relocation and sharing efforts.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	60.134	-	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**60.134**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Justification:

Manned Unmanned Teaming provides Apache Block AH-64 attack helicopters the ability to display real time sensor video from UAS sensors, battlefield sensors or onboard sensor video to the Apache Aircrews. The use of the onboard or off-board sensor video by the warfighter dramatically reduces engagement timelines and increases situational awareness.

The budget request for Spectrum Army Small Unmanned Aerial Systems (SUAS) will fund the Manned/Unmanned teaming with the change in Small UAS frequency which encompasses a wide range of activity including modification, integration, testing, and production of MUMT-X, MUMT-2 and ROVER 6 radios.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 0023A01001 / MQ-1 PAYLOAD

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	248.628	-	-	57.700	-	57.700	-	-	-	-	-	306.328
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	248.628	-	-	57.700	-	57.700	-	-	-	-	-	306.328
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**248.628**	**-**	**-**	**57.700**	**-**	**57.700**	**-**	**-**	**-**	**-**	**-**	**306.328**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MQ-1 Payload (MIP) (A01001) budget line supports the Army's transformation by procuring Reconnaissance, Surveillance and Target Acquisition (RSTA) and Intelligence, Surveillance and Reconnaissance (ISR) payload systems for Brigade Combat Teams, Divisions, and Corps Unmanned Aircraft Systems (UAS). This is in accordance with Headquarters Department of the Army (HQDA) and Training and Doctrine Command (TRADOC) UAS priorities. Funding in this budget line specifically supports the principal payloads for the Gray Eagle UAS; specifically, the Common Sensor Payload (CSP) and Small TActical Radar - Lightweight (STARLite).

Common Sensor Payload (CSP) Electro Optical / Infrared / Laser Designator (EO/IR/LD) provides High Definition (HD) Target Location Accuracy (TLA) Full Motion Video (FMV) in both the Electro Optical and Mid Wave IR spectrums with day/night capability to collect and display continuous imagery and the ability to designate targets of interest for attack by laser guided precision weapons. It is the EO/IR/LD sensor for the Gray Eagle UAS which supports force applications, battlespace awareness, force protection, and net-centric operations across the battlefield to provide wide area, near real time RSTA capabilities. Current product improvements continue to focus on the development and implementation of technologies that directly supporting emerging requirements of the Army's Current and Future Force. The Army Acquisition Objective (AAO) for CSP is based on aircraft/ platform quantities; specifically, one CSP per Gray Eagle UAS plus spares.

Small TActical Radar - Lightweight (STARLite) provides Gray Eagle UAS multi-functional SAR/MTI and Electro-Optic/Infrared (EO/IR) cross-cueing capabilities for the detection, classification and location of stationary and moving vehicle and man-sized targets.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	57.700	-	57.700	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**-**	**-**	**57.700**	**-**	**57.700**	**-**	**-**	**-**	**-**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 0023A01001 / MQ-1 PAYLOAD	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-5	A01005 / CSP FMV	P-5a, P-21			- / 248.628	- / -	- / -	- / 57.700	- / -	- / 57.700
P-40	**Total Gross/Weapon System Cost**				**- / 248.628**	**- / -**	**- / -**	**- / 57.700**	**- / -**	**- / 57.700**

*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:
CSP: Fiscal Year (FY) 2023 dollars in the amount of $57.700 million support the production of 24 payloads and spare parts integrating the Target Location Accuracy (TLA) capability into the Common Sensor Payload (CSP) to support combat or direct combat support expenses for Operation Inherent Resolve.

All Quantities are for the Active component.

Comments:
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 the homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: 0023A01001 / MQ-1 PAYLOAD	Item Number / Title [DODIC]: A01005 / CSP FMV
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	248.628	-	-	57.700	-	57.700
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	248.628	-	-	57.700	-	57.700
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**248.628**	**-**	**-**	**57.700**	**-**	**57.700**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)						
Initial Spares *($ in Millions)*	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
CSP HD Procurement	1,615.054	56	90.443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSP HD Initial Spares	1,204.000	3	3.612	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSP Diode Pump Laser	165.000	57	9.405	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSP SD to HD Platform Retrofit/ Upgrades	479.165	188	90.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSP DMV-184 Processor Cards	21.000	135	2.835	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSP Diode Pump Laser Integration	-	-	2.490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSP PMO Support	-	-	10.919	-	-	-	-	-	-	-	-	4.938	-	-	-	-	-	4.938
CSP Interim Contractor Support (SD)	-	-	11.295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSP Interim Contractor Support (HD)	-	-	9.760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSP Initial Fielding Support	-	-	17.786	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSP-Target Location Accuracy (TLA) Production(†)	-	-	-	-	-	-	-	-	-	2,074.250	24	49.782	-	-	-	2,074.250	24	49.782
CSP TLA Spare Parts	-	-	-	-	-	-	-	-	-	-	-	2.980	-	-	-	-	-	2.980

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: 0023A01001 / MQ-1 PAYLOAD	Item Number / Title [DODIC]: A01005 / CSP FMV
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Subtotal: Recurring Cost	-	-	*248.628*	-	-	-	-	-	-	-	-	*57.700*	-	-	-	-	-	*57.700*
Subtotal: Flyaway Cost	**-**	**-**	***248.628***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	***57.700***	**-**	**-**	**-**	**-**	**-**	***57.700***
Gross/Weapon System Cost	**-**	**-**	**248.628**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**57.700**	**-**	**-**	**-**	**-**	**-**	**57.700**

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	57.700	-	57.700
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**-**	**-**	**57.700**	**-**	**57.700**

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: 0023A01001 / MQ-1 PAYLOAD	Item Number / Title [DODIC]: A01005 / CSP FMV

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
CSP-Target Location Accuracy (TLA) Production(†)		2023	Raytheon / McKinney	SS / FFP	ACC, APG	Aug 2023	Feb 2025	24	2,074.250	N		

(†) indicates the presence of a P-21

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0023A01001 / MQ-1 PAYLOAD	**Item Number / Title [DODIC]:** A01005 / CSP FMV

Cost Elements (Units in Each)							Fiscal Year 2023												Fiscal Year 2024												BALANCE
										Calendar Year 2023												Calendar Year 2024									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CSP-Target Location Accuracy (TLA) Production																															
	1	2023	ARMY	24	0	24											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	24
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0023A01001 / MQ-1 PAYLOAD	**Item Number / Title [DODIC]:** A01005 / CSP FMV

Cost Elements (Units in Each)							Fiscal Year 2025												Fiscal Year 2026												BALANCE
							Calendar Year 2025												Calendar Year 2026												
COO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CSP-Target Location Accuracy (TLA) Production																															
	1	2023	ARMY	24	0	24	-	-	-	-	3	3	3	3	3	3	3	3													0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0023A01001 / MQ-1 PAYLOAD	**Item Number / Title [DODIC]:** A01005 / CSP FMV

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
					Initial				Reorder			
		MSR For 2023	1-8-5 For 2023	MAX For 2023	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Raytheon - McKinney	1	24	125	0	10	18	28	0	10	18	28

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

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 0028A02706 / Universal Ground Control Equipment (UAS)

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	44.122	7.509	-	-	-	-	-	-	-	-	-	51.631
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	44.122	7.509	-	-	-	-	-	-	-	-	-	51.631
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**44.122**	**7.509**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**51.631**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Scalable Control Interface (SCI) will be the primary means of Command and Control (C2) for Program of Record Army Unmanned Aircraft Systems (UAS). SCI software will be hosted on Mission Command devices in both ground and airborne platforms serving as nodes on the Integrated Tactical Network to retrieve and provide data. SCI distributes UAS capabilities by greatly increasing the number of UAS control devices available to Soldiers and Commanders through the depth of the battlefield. SCI provides simultaneous control of multiple aircraft from a single node. SCI leverages a Modular Operating System Approach (MOSA) to software in order to reduce time and cost to integrate new hardware and software in response to the dynamic future operating environment.

Deployment of SCI will include, but is not limited to, devices in the Mobile/Handheld Computing Environment (such as Nett Warrior), Mounted Computing Environment (such as Mounted Family of Computer Systems - MFoCS), and Command Post Computing Environment (such as Tactical Server Infrastructure - TSI). SCI will integrate decision-aiding, autonomy, and artificial intelligence as they mature technically, in order to support MDO tenets and enable Many-to-Many (vice 1 controller: 1 UAS) Control/use of UAS assets and reduce cognitive workload.

Justification:

FY2021 SCI (Formerly Universal Product) Base funding of $7.509 million will be used to continue the fielding of S-788 Modernized Server Kits for Shadow Block III, stepping stone for SCI capable shelters in the field (119 Kits). These Kits will support current Universal Ground Control Station (UGCS) operations while providing processing power and capability for operations in a MDO Environment.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2

ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0305204A, 0305219A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	278.141	30.280	123.143	13.038	-	13.038	11.735	-	-	-	-	456.337
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	278.141	30.280	123.143	13.038	-	13.038	11.735	-	-	-	-	456.337
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**278.141**	**30.280**	**123.143**	**13.038**	**-**	**13.038**	**11.735**	**-**	**-**	**-**	**-**	**456.337**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MQ-1C Gray Eagle provides the Army with an Extended Range, Multi-Purpose (ERMP) Unmanned Aircraft System (UAS); capable of executing reconnaissance, security, attack, and intelligence collection missions in the range of military operations (ROMO). Sensors/payloads include an Electro-Optical/Infrared/Laser Designator (EO/IR/LD), Synthetic Aperture Radar/Moving Target Indicator (SAR/MTI), Signals Intelligence (SIGINT), and HELLFIRE missiles; providing a near all-weather mission capability. MQ-1C Gray Eagle is a dedicated, assured, multi-mission Unmanned Aircraft System (UAS) fielded to all Army Divisions, Intelligence and Security Command and Army Special Operations Command in support of the commander's warfighting priorities and Aviation Force 1.1 capabilities enabling Multi-Domain Operations (MDO).

The MQ-1C Gray Eagle Modification/Product Improvement Program (PIP) funding is required for Datalinks and Avionics modernization. Datalinks and Avionics modernization involves the procurement of new SATCOM ground and air vehicle equipment, new air vehicle avionics, and system re-architecture through the partitioning and updating of software to allow for the separation of critical and non-critical functions. This modernization effort will enable multi-band communication for Beyond Line of Sight data transmission, replace obsolete processors, and improve system processing and increase both throughput and memory capability. PIP funding also supports multi-phased integration efforts of hardware and software procurement in support of Army Assured-Positioning Navigation and Timing (A-PNT) requirements to allow the MQ-1C Gray Eagle to survive, persist, and thrive in GPS denied environments. This funding will support the procurement, development, and integration that is necessary for Link-16 on the MQ-1C. These upgrades improve operations in contested environments, address obsolescence, and establish an architecture that enables integration of future payloads to support Multi-Domain Operations and, as required by Public Law 111-383, M-Code capability.

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.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	30.280	123.143	13.038	-	13.038	11.735	-	-	-
Total:	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0305204A, 0305219A
Line Item MDAP/MAIS Code: N/A		

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Secondary Distribution	Total Obligation Authority	30.280	123.143	13.038	-	13.038	11.735	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305204A, 0305219A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-3a	A00002 / Communications Modernization (Link 16) (UNCLASSFIED)				- / 278.141	- / 30.280	- / 123.143	- / 13.038	- / -	- / 13.038
P-40	**Total Gross/Weapon System Cost**				**- / 278.141**	**- / 30.280**	**- / 123.143**	**- / 13.038**	**- / -**	**- / 13.038**

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-3a	A00002 / Communications Modernization (Link 16) (UNCLASSFIED)				- / 11.735	- / -	- / -	- / -	- / -	- / 456.337
P-40	**Total Gross/Weapon System Cost**				**- / 11.735**	**- / -**	**- / -**	**- / -**	**- / -**	**- / 456.337**

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

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

Justification:

FY2023 Base Procurement dollars in the amount of $13.038M supports the procurement of the Critical Avionics and Datalinks equipment, which supports transition of the SATCOM datalink to a multiband frequency. Acquisition and repair of GFE, as well as procurement of aircraft kits, to support test and evaluation efforts will be funded.

FY2022 Base Procurement Congressional Plus-Up dollars in the amount of $120.000M supports the recapitalization of legacy MQ-1C Gray Eagle aircraft to MQ-1C Gray Eagle Extended Range (GE-ER) Multi-Domain Operation (MDO) Configuration.

The MQ-1C Gray Eagle Modification/Product Improvement Program (PIP) funding is required for Datalinks and Avionics modernization. Datalinks and Avionics modernization involves the procurement of new SATCOM ground and air vehicle equipment, new air vehicle avionics, and system re-architecture through the partitioning and updating of software to allow for the separation of critical and non-critical functions. This modernization effort will enable multi-band communication for Beyond Line of Sight data transmission, replace obsolete processors, and improve system processing and increase both throughput and memory capability. PIP funding also supports multi-phased integration efforts of hardware and software procurement in support of Army Assured-Positioning Navigation and Timing (A-PNT) requirements to allow the MQ-1C Gray Eagle to survive, persist, and thrive in GPS denied environments. This effort fully integrates Link-16, increases operational reach, and meets objectives all while reducing cognitive burden for the Soldier. These upgrades improve operations in contested environments, address obsolescence, and establish an architecture that enables integration of future payloads to support Multi-Domain Operations.

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	278.141	30.280	123.143	13.038	-	13.038	11.735	-	-	-	-	456.337
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	278.141	30.280	123.143	13.038	-	13.038	11.735	-	-	-	-	456.337
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**278.141**	**30.280**	**123.143**	**13.038**	**-**	**13.038**	**11.735**	**-**	**-**	**-**	**-**	**456.337**
(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)*	12,093.087	-	30,785.750	-	-	-	-	-	-	-	-	16,901.370

Description:

The MQ-1C Gray Eagle provides the Army with an Extended Range, Multi-Purpose (ERMP) Unmanned Aircraft System (UAS); capable of executing reconnaissance, security, attack, and intelligence collection missions in the range of military operations (ROMO). Sensors/payloads include an Electro-Optical/Infrared/Laser Designator (EO/IR/LD), Synthetic Aperture Radar/Moving Target Indicator (SAR/MTI), Signals Intelligence (SIGINT), and HELLFIRE missiles; providing a near all-weather mission capability. MQ-1C Gray Eagle is a dedicated, assured, multi-mission Unmanned Aircraft System (UAS) fielded to all Army Divisions, Intelligence and Security Command and Army Special Operations Command in support of the commander's warfighting priorities and Aviation Force 1.1 capabilities enabling Multi-Domain Operations.

The MQ-1C Gray Eagle Modification/Product Improvement Program (PIP) funding is required for Datalinks and Avionics modernization. Datalinks and Avionics modernization involves the procurement of new SATCOM ground and air vehicle equipment, new air vehicle avionics, and system re-architecture through the partitioning and updating of software to allow for the separation of critical and non-critical functions. This modernization effort will enable multi-band communication for Beyond Line of Sight data transmission, replace obsolete processors, and improve system processing and increase both throughput and memory capability. PIP funding also supports multi-phased integration efforts of hardware and software procurement in support of Army Assured-Positioning Navigation and Timing (A-PNT) requirements to allow the MQ-1C Gray Eagle to survive, persist, and thrive in GPS denied environments. These upgrades improve operations in contested environments, address obsolescence, and establish an architecture that enables integration of future payloads to support Multi-Domain Operations and, as required by Public Law 111-383, M-Code capability.

Note: Each A-kit and B-kit modifies one (1) aircraft.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	30.280	123.143	13.038	-	13.038	11.735	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**30.280**	**123.143**	**13.038**	**-**	**13.038**	**11.735**	**-**	**-**	**-**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Development Status/Major Development Milestones

Date	Title	Description
Jan 2020	Datalinks and Avionics Modernizatoin	Retrofits
Jan 2021	Datalinks and Avionics Modernizatoin	Retrofits

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: N/A	**Modification Type:** UNCLASSFIED	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Procurement												
Modification Item 1 of 8: Warrior Alpha Modification												
A Kits												
Non-Recurring												
Non-recurring engineering	- / 4.576	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.576
Subtotal: Non-Recurring	*- / 4.576*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 4.576*
B Kits												
Recurring												
High Definition & BLOS Payload	10 / 27.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 27.000
Subtotal: Recurring	*10 / 27.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*10 / 27.000*
Subtotal: Warrior Alpha Modification	*10 / 31.576*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*10 / 31.576*
Modification Item 2 of 8: Assured Positioning Navigation Timing Improvements												
B Kits												
Recurring												
Global Positioning System (GPS) Denied	225 / 33.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	225 / 33.075
Subtotal: Recurring	*225 / 33.075*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*225 / 33.075*
Non-Recurring												
Software Updates	- / 24.310	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.310
Non-GPS Navigation NRE	- / 10.444	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.444
Program Management	- / 9.431	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.431
Navigator 2 Qualification	- / 5.198	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.198
Auto-pilot Improvements	- / 4.330	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.330
Avionics NRE	- / 25.390	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.390
Subtotal: Non-Recurring	*- / 79.103*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 79.103*
Subtotal: Assured Positioning Navigation Timing Improvements	*225 / 112.178*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*225 / 112.178*
Modification Item 3 of 8: Datalink and Avionics Modernization												
B Kits												
Recurring												

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: N/A	**Modification Type:** UNCLASSFIED	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Datalink Modernization B-Kits	17 / 50.100	3 / 3.062	2 / 0.883	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 54.045
Subtotal: Recurring	*17 / 50.100*	*3 / 3.062*	*2 / 0.883*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*22 / 54.045*
Non-Recurring												
Datalink Modernization NRE	- / 68.331	- / 4.456	- / -	- / 8.038	- / -	- / 8.038	- / 6.735	- / -	- / -	- / -	- / -	- / 87.560
Subtotal: Non-Recurring	*- / 68.331*	*- / 4.456*	*- / -*	*- / 8.038*	*- / -*	*- / 8.038*	*- / 6.735*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 87.560*
Subtotal: Datalink and Avionics Modernization	*17 / 118.431*	*3 / 7.518*	*2 / 0.883*	*- / 8.038*	*- / -*	*- / 8.038*	*- / 6.735*	*- / -*	*- / -*	*- / -*	*- / -*	*22 / 141.605*
Modification Item 4 of 8: Communications Modernization Link 16												
A Kits												
Non-Recurring												
Communications Modernization Link 16	- / -	48 / 14.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 14.000
Subtotal: Non-Recurring	*- / -*	*48 / 14.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*48 / 14.000*
Subtotal: Communications Modernization Link 16	*- / -*	*48 / 14.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*48 / 14.000*
Modification Item 5 of 8: GFE Repair												
A Kits												
Recurring												
GFE Repair	- / -	- / 3.000	- / 0.988	- / 3.000	- / -	- / 3.000	- / 3.000	- / -	- / -	- / -	- / -	- / 9.988
Subtotal: Recurring	*- / -*	*- / 3.000*	*- / 0.988*	*- / 3.000*	*- / -*	*- / 3.000*	*- / 3.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 9.988*
Subtotal: GFE Repair	*- / -*	*- / 3.000*	*- / 0.988*	*- / 3.000*	*- / -*	*- / 3.000*	*- / 3.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 9.988*
Modification Item 6 of 8: Program Management												
A Kits												
Recurring												
Program Management	- / -	- / 2.000	- / 0.659	- / 2.000	- / -	- / 2.000	- / 2.000	- / -	- / -	- / -	- / -	- / 6.659
Subtotal: Recurring	*- / -*	*- / 2.000*	*- / 0.659*	*- / 2.000*	*- / -*	*- / 2.000*	*- / 2.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 6.659*
Subtotal: Program Management	*- / -*	*- / 2.000*	*- / 0.659*	*- / 2.000*	*- / -*	*- / 2.000*	*- / 2.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 6.659*
Modification Item 7 of 8: Red River Army Depot Fielding Support												
Subtotal: Red River Army Depot Fielding Support	*- / 0.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 0.000*
Modification Item 8 of 8: Legacy Air Vehicle Upgrades												
A Kits												
Recurring												

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: N/A	**Modification Type:** UNCLASSFIED	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Legacy Air Vehicle Upgrade	- / -	- / -	4 / 120.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 120.000
Subtotal: Recurring	*- / -*	*- / -*	*4 / 120.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*4 / 120.000*
Subtotal: Legacy Air Vehicle Upgrades	*- / -*	*- / -*	*4 / 120.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*4 / 120.000*
Subtotal: Procurement, All Modification Items	*252 / 262.185*	*51 / 26.518*	*6 / 122.530*	*- / 13.038*	*- / -*	*- / 13.038*	*- / 11.735*	*- / -*	*- / -*	*- / -*	*- / -*	*309 / 436.006*
Installation												
Modification Item 2 of 8: Assured Positioning Navigation Timing Improvements	225 / 8.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	225 / 8.100
Modification Item 3 of 8: Datalink and Avionics Modernization	15 / 7.856	3 / 3.672	2 / 0.613	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 12.141
Modification Item 7 of 8: Red River Army Depot Fielding Support	- / -	1 / 0.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.090
Subtotal: Installation	*240 / 15.956*	*4 / 3.762*	*2 / 0.613*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*246 / 20.331*
Total												
Total Cost (Procurement + Support + Installation)	**278.141**	**30.280**	**123.143**	**13.038**	**-**	**13.038**	**11.735**	**-**	**-**	**-**	**-**	**456.337**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)

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

Modification Item 1 of 8: Warrior Alpha Modification

Manufacturer Information

Manufacturer Name: General Atomics | Manufacturer Location: Poway, CA

Administrative Leadtime *(in Months)*: 4 | Production Leadtime *(in Months)*: 15

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

Installation Information

Method of Implementation (Organic): Replacement aircraft build | **Installation Quantity:** 10

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 2 of 8: Assured Positioning Navigation Timing Improvements

Manufacturer Information

Manufacturer Name: General Atomics (GA-ASI)	Manufacturer Location: Poway, CA
Administrative Leadtime *(in Months)*: 4	Production Leadtime *(in Months)*: 24

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

Installation Information

Method of Implementation: FSR Fielded Retrofits

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	113 / 4.068	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	113 / 4.068
FY 2022	112 / 4.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 4.032
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	225 / 8.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	225 / 8.100

Installation Schedule

		FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027					
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	225
Out	113	-	-	50	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	225

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)

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

Modification Item 3 of 8: Datalink and Avionics Modernization

Manufacturer Information

Manufacturer Name: General Atomics (GA-ASI) | Manufacturer Location: Poway, CA

Administrative Leadtime *(in Months)*: 4 | Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: Engineering Change Proposal, ECP

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	15 / 7.856	3 / 3.672	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 11.528
FY 2023	- / -	- / -	2 / 0.613	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.613
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	15 / 7.856	3 / 3.672	2 / 0.613	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 12.141

Installation Schedule

		FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027					
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	6	-	-	3	12	-	-	2	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
Out	1	-	-	5	-	-	-	3	-	12	-	2	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	27

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)

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

Modification Item 4 of 8: Communications Modernization Link 16

Manufacturer Information

Manufacturer Name: VIASAT Corporation	Manufacturer Location: Carlsbad, California
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): ECP	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)

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

Modification Item 5 of 8: GFE Repair

Manufacturer Information

Manufacturer Name: General Atomics | Manufacturer Location: Poway, California

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Depot | **Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)

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

Modification Item 6 of 8: Program Management

Manufacturer Information

Manufacturer Name: General Atomics | Manufacturer Location: Poway, California

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Gray Eagle Technical Services | **Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)

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

Modification Item 7 of 8: Red River Army Depot Fielding Support

Manufacturer Information

Manufacturer Name: United States Army Materiel Command | Manufacturer Location: New Boston, TX

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Depot Support

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	1 / 0.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.090
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	1 / 0.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.090

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 0756AA6601 / Gray Eagle Mods2	**Modification Number / Title:** A00002 / Communications Modernization (Link 16)

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

Modification Item 8 of 8: Legacy Air Vehicle Upgrades

Manufacturer Information

Manufacturer Name: General Atomics | Manufacturer Location: Poway, CA

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*: 19

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

Installation Information

Method of Implementation (Organic): General Atomics (OEM) | **Installation Quantity:** 4

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 1036AZ2001 / MULTI SENSOR ABN RECON

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,486.460	158.384	120.910	21.380	-	21.380	17.725	18.023	18.119	18.044	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,486.460	158.384	120.910	21.380	-	21.380	17.725	18.023	18.119	18.044	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,486.460**	**158.384**	**120.910**	**21.380**	**-**	**21.380**	**17.725**	**18.023**	**18.119**	**18.044**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AZ2001 Multi Sensor Airborne (ABN) Recon Military Intelligence Program (MIP) is the Parent Line to Airborne Reconnaissance Low -- Enhanced (ARL-E) (MIP) (AZ2050), Guardrail Common Sensor (GRCS) Payloads (MIP) (AZ2052), Enhanced Medium Reconnaissance and Surveillance System (EMARSS) Payloads (MIP) (AZ2054), and the Army ABN Intelligence, Surveillance and Reconnaissance (ISR) Modifications (AZ2056).

Airborne Reconnaissance Low - Enhanced (ARL-E) is a worldwide self-deployable airborne ISR system designed for timely, accurate, assured support to tactical forces over the full spectrum of operations. This system is a De Havilland DHC-8 aircraft replacing the DHC-7 IAW the Aerial ISR (AISR) 2020 Strategy. ARL-E will enhance the ARL-M sensor capability sets through the procurement of new and refurbished sensors to meet the ARL-E Capabilities Production Document (CPD) requirements. It provides a persistent capability to include: Broad-Area Surveillance and/or Focused Stare on Target Areas of Interest (Point or Objective Targets), Electro-Optical/Infrared (EO/IR)/Full-Motion Video (FMV) , Multi-Mode Radar, Robust Communications Intelligence (COMINT), on-Board Collection, Analysis, Sensor Cross Cue and dissemination through Distributed Common Ground System-Army (DCGS-A) Enabled workstations. ARL-E will be assigned to the U.S. Army Intelligence and Security Command's (INSCOM) AISR Brigade providing support to combatant commanders. For the overall system, the Army Acquisition Objective and the Army Procurement Objective, is nine (9). The Mission Equipment Package (MEP) objective is eight (8).

This funding line supports the procurement and modernization of eight (8) complete MEP sets, which includes the following sensors: one (1) COMINT subsystem capable of supporting theater net centric geo-location efforts, two (2) High Definition FMV sensors and one (1) Improved Synthetic Aperture Radar / Ground Moving Target Indicator (SAR/GMTI) radar subsystem or one (1) SAR/Dismounted Moving Target Indicator (DMTI) subsystem. The MEP also includes four (4) DCGS-A workstations, one (1) set of communication equipment (mission radios, Beyond line of Site (BLOS) and Line of Site (LOS) Data links). ARL-E is capable of rapid installation of sensors in a plug and play, quick connect/disconnect, mounting system to allow various combinations of sensor-types in support of a wide-range of theater operations. All MEPs include the infrastructure to plug and play a Hyper-Spectral Imagery (HSI) Payload purchased under a Quick Reaction Capability (QRC) program. Future Growth capabilities include: Wide-Area Aerial Surveillance (WAAS), Light Detection and Ranging (LiDAR) and Foliage Penetration Radar (FOPEN).

The overall ARL-E procurement/modernization efforts are found in the following three (3) lines; AZ2050 ARL Payloads (Project Manager Sensors - Aerial Intelligence), A02109, ARL-E Special Electronic Mission Aircraft (SEMA) (MIP) and A02110 ARL-E SEMA Mods (MIP) (Fixed Wing Project Office). Separate funding lines support the Army Acquisition Executive's directive, codified in the October 28, 2011 memorandum, to assign overall acquisition lead for manned airborne Intelligence systems to Program Executive Officer for Aviation; and overall sensor, processing, exploitation, and dissemination responsibilities to Program Executive Officer for Intelligence, Electronic Warfare, and Sensors.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 1036AZ2001 / MULTI SENSOR ABN RECON	
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		

The Guardrail Common Sensor (GRCS) is an airborne Signals Intelligence (SIGINT) Collection and Location System capable of providing Tactical Commanders Near-Real Time intelligence. It provides a persistent capability to detect, locate and classify/identify critical targets with a relevant degree of timeliness and accuracy. GRCS is assigned to two (2) U.S. Army Intelligence and Security Command's (INSCOM) Aerial Exploitation Battalions, providing Aerial Intelligence, Surveillance and Reconnaissance (AISR) support to combatant commanders. The Army's Acquisition Objective/Army's Procurement Objective (AAO/APO) is 19 RC-12X; seven (7) fielded to 3rd Military Intelligence Battalion (MI BN); seven (7) fielded to the 204th MI BN, and five (5) pilot trainers to support Force Generation. The five (5) trainers are not equipped with Primary Mission Equipment (PME).

The overall GRCS procurement/modernization efforts are found in the following two lines: AZ2052 Guardrail Payloads Military Intelligence Program (MIP) and A02111 GRCS SEMA MODS (MIP). Separate funding lines support the Army Acquisition Executive's directive, codified in the October 28, 2011 memorandum, to assign overall acquisition lead for manned airborne Intelligence systems to Program Executive Office for Aviation; and overall sensor, processing, exploitation, and dissemination responsibilities to Program Executive Officer for Intelligence, Electronic Warfare, and Sensors.

GRCS is currently the most capable Army AISR system that provides SIGINT capabilities to support long range targeting of near-peer threats in an Anti-Access Area Denial (A2AD) environment.

RDT&E and procurement funding currently planned will address obsolescence issues for critical SIGINT capabilities on the GRCS platform. These investments ensure GRCS AISR support in the A2AD environment is not impacted, which would prevent critical intelligence collection at large standoff which is needed to address long range targeting of near-peer threats and maintain system relevancy.

The Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS) is the Army's newest generation C-12 based, direct support, manned airborne intelligence collection, processing, and targeting support system. It provides a persistent capability to detect, locate, classify/identify, and track surface targets with a high degree of timeliness and accuracy. EMARSS is assigned to the U.S. Army INSCOM Aerial Exploitation Battalions, providing AISR support to combatant commanders. EMARSS is also assigned to the United States Army Training and Doctrine Command (TRADOC) in support of training at the US Army Intelligence Center of Excellence (USAICoE). The AAO for EMARSS is 36 systems, with an APO of 24, to include the following variants: eight (8) EMARSS-G (Geo-INT); four (4) EMARSS-V (Vehicle and Dismount Exploitation Radar, VaDER); eight (8) EMARSS-M (Multi-INT); and four (4) EMARSS-S (SIGINT). Loss of one EMARSS-M in 2020 reduced the operational fleet to 23 aircraft.

Each EMARSS variant has a distinct Mission Equipment Package (MEP). This funding line supports the pre-planned product improvements of the following sensor capabilities: SIGINT; Electro-optical/Infrared (EO/IR)/Full Motion Video (FMV); Communications Intelligence (COMINT) to include Big Iron; Wide Area Aerial Surveillance (WAAS); Light Imaging Detection and Ranging (LiDAR) and improved Synthetic Aperture RADAR / Moving Target Indicator (SAR/MTI) RADAR; line-of-site (LOS) and beyond line-of-site (BLOS) communications; and Processing Exploitation and Dissemination (PED) supporting two Distributed Common Ground System - Army (DCGS-A) enabled operator workstations.

The overall EMARSS procurement/modernization efforts are found in the following two lines; AZ2054 EMARSS Payloads (Project Manager Sensors - Aerial Intelligence) and A02112 EMARSS SEMA Mods (Fixed Wing Project Office). Separate funding lines support the Army Acquisition Executive's directive, codified in the October 28, 2011 memorandum, to assign overall acquisition lead for manned airborne Intelligence systems to Program Executive Officer for Aviation; and overall sensor, processing, exploitation, and dissemination responsibilities to Program Executive Officer for Intelligence, Electronic Warfare, and Sensors.

EMARSS transitioned from A02005.

The Army ABN ISR Modifications line is to support aircraft modifications for Aerial Technical Demonstrators [ATDs], Quick Reaction Capabilities (QRC) or SEMA aircraft in direct support of U.S. Army COCOMS.

Congressional mark for Fiscal Year (FY) 2022 was incorrectly allocated to AZ2052. Congressional mark should be against AZ2050.
AZ2050 FY 2022 funding request should reflect $75.234 million.
AZ2052 FY 2022 funding request should reflect $18.554 million.

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

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 1036AZ2001 / MULTI SENSOR ABN RECON

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
	Total Obligation Authority	158.384	120.910	21.380	-	21.380	17.725	18.023	18.119	18.044
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**158.384**	**120.910**	**21.380**	**-**	**21.380**	**17.725**	**18.023**	**18.119**	**18.044**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 1036AZ2001 / MULTI SENSOR ABN RECON

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)
P-40a	AZ2050 / ARL PAYLOADS (Operational)				- / 1,274.077	- / 62.876	- / 81.989	- / -	- / -	- / -
P-40a	AZ2052 / GUARDRAIL PAYLOADS (U)				- / 120.980	- / 25.869	- / 11.799	- / 3.714	- / -	- / 3.714
P-40a	AZ2054 / EMARSS PAYLOADS (x)				- / 91.403	- / 15.204	- / 9.912	- / 0.456	- / -	- / 0.456
P-3a	AZ2056 / ABN ISR MODS (MIP) (Operational)				- / -	- / 54.435	- / 17.210	- / 17.210	- / -	- / 17.210
P-40	**Total Gross/Weapon System Cost**				**- / 1,486.460**	**- / 158.384**	**- / 120.910**	**- / 21.380**	**- / -**	**- / 21.380**

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)
P-40a	AZ2050 / ARL PAYLOADS (Operational)				- / 14.601	- / 14.605	- / 14.685	- / 14.622	Continuing	Continuing
P-40a	AZ2052 / GUARDRAIL PAYLOADS (U)				- / -	- / -	- / -	- / -	- / -	- / 162.362
P-40a	AZ2054 / EMARSS PAYLOADS (x)				- / 3.124	- / 3.418	- / 3.434	- / 3.422	Continuing	Continuing
P-3a	AZ2056 / ABN ISR MODS (MIP) (Operational)				- / -	- / -	- / -	- / -	- / -	- / 88.855
P-40	**Total Gross/Weapon System Cost**				**- / 17.725**	**- / 18.023**	**- / 18.119**	**- / 18.044**	**Continuing**	**Continuing**

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

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

Justification:
AZ2050 has no Fiscal Year (FY) 2023 funding request.

FY 2023 funding to support the overall Guardrail Common Sensor (GRCS) efforts are found in the following two lines; AZ2052 GRCS Payloads (Project Manager Sensors - Aerial Intelligence (PM SAI)) and A02111 GRCS SEMA (Project Manager Fixed Wing (PM FW)) (separate form).

The purpose of GRCS AZ2052 is to procure, upgrade, and integrate SIGINT sensors, as well as the communications suite, and processing, exploitation and dissemination equipment on Guardrail. This will ensure Guardrail is rapidly-deployable, world-wide, against current, new, and emerging threats.

Guardrail Common Sensor (GRCS) FY 2023 Operation European Deterrence Initiative procurement funds in the amount of $3.714 million supports procurement for GRCS advanced signal enhancement efforts, integration & testing of the signal enhancement infrastructure for GRCS updated Signals Intelligence (SIGINT) sensor capabilities including multiple Communications Intelligence (COMINT) and Electronic Intelligence (ELINT) sensors, and interim contractor support prior to transitioning to sustainment organizations. Funding also supports required program management.

The purpose of EMARSS AZ2054 is to support the procurement and upgrade of the following sensor payload capabilities: Signals Intelligence (SIGINT); Electro-optical/Infrared (EO/IR)/Full Motion Video (FMV); a Communications Intelligence (COMINT) to include Big Iron; Wide Area Aerial Surveillance (WAAS); Light Imaging Detection and Ranging (LiDAR) and improved Synthetic Aperture Radar / Moving Target Indicator (SAR/MTI) radar; line-of-site (LOS) and beyond line-of-site (BLOS) communications; Processing Exploitation and Dissemination (PED) supporting two Distributed Common Ground System - Army (DCGS-A) enabled operator workstations; and pre-planned product improvements.

EMARSS FY 2023 Base procurement funds in the amount of $0.456 million supports logistics and engineering support for SIGINT efforts.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 1036AZ2001 / MULTI SENSOR ABN RECON	
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		

ABN ISR Mods Military Intelligence Program (MIP) FY 2023 procurement dollars in the amount of $17.210 million supports procurement and installation of aircraft avionics, procurement of software and equipment required to enable the aircraft to remain capable and sustainable for deployed operations and future integration efforts supporting Aerial Intelligence, Surveillance and Reconnaissance (A-ISR) modernization in the Multi-Domain Operation (MDO) environment.

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.

All funding is in Active Component.

Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 1036AZ2001 / MULTI SENSOR ABN RECON	**Aggregated Modification Items Title:** Various

Item Number / Title	ID CD	MDAP/ MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Various Items																				
AZ2050 / ARL PAYLOADS			-	-	1,274.077	-	-	62.876	-	-	81.989	-	-	-	-	-	-	-	-	-
Secondary Distribution																				
Army				-	-		-	62.876		-	81.989		-	-		-	-		-	-
AZ2052 / GUARDRAIL PAYLOADS			-	-	120.980	-	-	25.869	-	-	11.799	-	-	3.714	-	-	-	-	-	3.714
Secondary Distribution																				
Army				-	-		-	25.869		-	11.799		-	3.714		-	-		-	3.714
AZ2054 / EMARSS PAYLOADS			-	-	91.403	-	-	15.204	-	-	9.912	-	-	0.456	-	-	-	-	-	0.456
Secondary Distribution																				
Army				-	-		-	15.204		-	9.912		-	0.456		-	-		-	0.456
Subtotal: Various Items			**-**	**-**	***1,486.460***	**-**	**-**	***103.949***	**-**	**-**	***103.700***	**-**	**-**	***4.170***	**-**	**-**	**-**	**-**	**-**	***4.170***
Total			**-**	**-**	**1,486.460**	**-**	**-**	**103.949**	**-**	**-**	**103.700**	**-**	**-**	**4.170**	**-**	**-**	**-**	**-**	**-**	**4.170**

Item Number / Title	ID CD	MDAP/ MAIS Code	FY 2024			FY 2025			FY 2026			FY 2027			To Complete			Total Cost		
			Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Various Items																				
AZ2050 / ARL PAYLOADS			-	-	14.601	-	-	14.605	-	-	14.685	-	-	14.622		Continuing			Continuing	
Secondary Distribution																				
Army				-	14.601		-	14.605		-	14.685		-	14.622		-	-		-	-
AZ2052 / GUARDRAIL PAYLOADS			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	162.362
Secondary Distribution																				
Army				-	-		-	-		-	-		-	-		-	-		-	-
AZ2054 / EMARSS PAYLOADS			-	-	3.124	-	-	3.418	-	-	3.434	-	-	3.422		Continuing			Continuing	
Secondary Distribution																				
Army				-	3.124		-	3.418		-	3.434		-	3.422		-	-		-	-
Subtotal: Various Items			**-**	**-**	***17.725***	**-**	**-**	***18.023***	**-**	**-**	***18.119***	**-**	**-**	***18.044***		***Continuing***			***Continuing***	
Total			**-**	**-**	**17.725**	**-**	**-**	**18.023**	**-**	**-**	**18.119**	**-**	**-**	**18.044**		**Continuing**			**Continuing**	

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

Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 1036AZ2001 / MULTI SENSOR ABN RECON	**Aggregated Modification Items Title:** Various

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
Various Items		
AZ2050 / ARL PAYLOADS	ARL	Operational
AZ2052 / GUARDRAIL PAYLOADS	See individual Mods	U
AZ2054 / EMARSS PAYLOADS	EMARSS	x

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 1036AZ2001 / MULTI SENSOR ABN RECON	**Modification Number / Title:** AZ2056 / ABN ISR MODS (MIP)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	-	54.435	17.210	17.210	-	17.210	-	-	-	-	-	88.855
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	-	54.435	17.210	17.210	-	17.210	-	-	-	-	-	88.855
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**-**	**54.435**	**17.210**	**17.210**	**-**	**17.210**	**-**	**-**	**-**	**-**	**-**	**88.855**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding supports manned airborne Intelligence, Surveillance and Reconnaissance (ISR) system providing a capability to detect, locate, classify/identify, and track surface targets in day/night, near-all-weather conditions with a high degree of timeliness and accuracy. Efforts can support Medium Altitude Reconnaissance and Surveillance System (MARSS), Saturn Arch, Enhanced Medium Reconnaissance and Surveillance System (EMARSS), and the High Attitude Detection and Exploitation System (HADES).

ABN ISR Mods Military Intelligence Program (MIP) FY 2023 procurement dollars in the amount of $17.210 million supports procurement and installation of aircraft avionics, procurement of software and equipment required to enable the aircraft to remain capable and sustainable for deployed operations and future integration efforts supporting Aerial Intelligence, Surveillance and Reconnaissance (A-ISR) modernization in the Multi-Domain Operation (MDO) environment.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	54.435	17.210	17.210	-	17.210	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**54.435**	**17.210**	**17.210**	**-**	**17.210**	**-**	**-**	**-**	**-**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 1036AZ2001 / MULTI SENSOR ABN RECON	**Modification Number / Title:** AZ2056 / ABN ISR MODS (MIP)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: Saturn Arch	**Modification Type:** Operational	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Procurement												
Modification Item 1 of 1: ABN ISR Mods												
A Kits												
Recurring												
Aircraft Survivability Equipment	- / -	- / 3.418	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.418
Communications Navigation Surveillance	- / -	- / 8.362	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.362
Modifications in Service	- / -	- / -	- / 17.210	- / 17.210	- / -	- / 17.210	- / -	- / -	- / -	- / -	- / -	- / 34.420
Subtotal: Recurring	*- / -*	*- / 11.780*	*- / 17.210*	*- / 17.210*	*- / -*	*- / 17.210*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 46.200*
B Kits												
Recurring												
Hyperspectral Imaging Sensor	- / -	3 / 42.655	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 42.655
Subtotal: Recurring	*- / -*	*3 / 42.655*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*3 / 42.655*
Subtotal: ABN ISR Mods	*- / -*	*3 / 54.435*	*- / 17.210*	*- / 17.210*	*- / -*	*- / 17.210*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*3 / 88.855*
Subtotal: Procurement, All Modification Items	*- / -*	*3 / 54.435*	*- / 17.210*	*- / 17.210*	*- / -*	*- / 17.210*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*3 / 88.855*
Installation												
Subtotal: Installation	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*
Total												
Total Cost (Procurement + Support + Installation)	**-**	**54.435**	**17.210**	**17.210**	**-**	**17.210**	**-**	**-**	**-**	**-**	**-**	**88.855**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 1036AZ2001 / MULTI SENSOR ABN RECON	**Modification Number / Title:** AZ2056 / ABN ISR MODS (MIP)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 1: ABN ISR Mods

Manufacturer Information

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

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

Installation Information

Method of Implementation (Organic): Contractor	**Installation Quantity:** 0

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 2706AA6605 / AH-64 MODS

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	9,053.688	99.816	118.560	85.840	-	85.840	66.270	5.072	66.498	66.256	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	180.439	-	-	-	-	-	-	-	-	-	-	180.439
Net Procurement (P-1) *($ in Millions)*	8,873.249	99.816	118.560	85.840	-	85.840	66.270	5.072	66.498	66.256	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	180.439	-	-	-	-	-	-	-	-	-	-	180.439
Total Obligation Authority *($ in Millions)*	**9,053.688**	**99.816**	**118.560**	**85.840**	**-**	**85.840**	**66.270**	**5.072**	**66.498**	**66.256**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AH-64 Mods program is required to address operational mandates and obsolescence. It is necessary for the continued relevance, resilience, operational performance and readiness of the Army's attack helicopter fleet. The AH-64 Mods Program allows for near-term operationally driven improvements to the Apache fleet, focusing on deployment lessons learned, and reliability improvements. Improvements will occur to the Airframe, Armament, Communications, Manned / Unmanned Teaming, Navigation, Sensors, Survivability, Support Elements, and Training Systems. Examples of modifications include Selected Component Recapitalization, Airframe and Sensor Capability upgrades, procurement of Modernized Day Sensor Assembly (M-DSAs) components, initial procurement of Modernized Radar-Frequency Interferometer (MRFI), Software upgrades, Condition Based Maintenance (CBM), trainer concurrency, Computer/Processing and Data Display and Control upgrades. The AH-64D/AH-64E inventory crossover point (370 AH-64D / 370 AH-64E) occurred in October, 2020. These modernization efforts are required to ensure the Longbow Apache remains a ready and relevant Warfighter asset. The AH-64 Mods program is critical to ensure the Apache maintains its current level of capability.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	99.816	118.560	85.840	-	85.840	66.270	5.072	66.498	66.256
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**99.816**	**118.560**	**85.840**	**-**	**85.840**	**66.270**	**5.072**	**66.498**	**66.256**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 2706AA6605 / AH-64 MODS
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A / **Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A	

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)
P-3a	AA6606 / AH-64 APACHE MODS (Operational & Reliability Improvements and Resolve Obsolescence Issues)				- / 9,053.688	- / 99.816	- / 118.560	- / 85.840	- / -	- / 85.840
P-40	**Total Gross/Weapon System Cost**				**- / 9,053.688**	**- / 99.816**	**- / 118.560**	**- / 85.840**	**- / -**	**- / 85.840**

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)
P-3a	AA6606 / AH-64 APACHE MODS (Operational & Reliability Improvements and Resolve Obsolescence Issues)				- / 66.270	- / 5.072	- / 66.498	- / 66.256	Continuing	Continuing
P-40	**Total Gross/Weapon System Cost**				**- / 66.270**	**- / 5.072**	**- / 66.498**	**- / 66.256**	**Continuing**	**Continuing**

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

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

Justification:
FY2023 Base procurement dollars in the amount of $85.840 million supports modification and service life extension efforts for the Airframe, Armament, Manned/Unmanned Teaming, Mission Command, Sensors, Survivability, Support Elements, and Training Systems. This also includes procurement of Modernized Day Sensor Assemblies (MDSAs).

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 2706AA6605 / AH-64 MODS	**Modification Number / Title:** AA6606 / AH-64 APACHE MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	9,053.688	99.816	118.560	85.840	-	85.840	66.270	5.072	66.498	66.256	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	180.439	-	-	-	-	-	-	-	-	-	-	180.439
Net Procurement (P-1) *($ in Millions)*	8,873.249	99.816	118.560	85.840	-	85.840	66.270	5.072	66.498	66.256	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	180.439	-	-	-	-	-	-	-	-	-	-	180.439
Total Obligation Authority *($ in Millions)*	**9,053.688**	**99.816**	**118.560**	**85.840**	**-**	**85.840**	**66.270**	**5.072**	**66.498**	**66.256**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Airframe includes modifications to the Structural Subsystems, Propulsion/Drive/Rotor Systems, Health Monitoring System, and Recap Support/Kits. Structural Subsystems modifications include improvements to the assembled structural and aerodynamic components of the air vehicle to include the fuselage and associated manual flight control systems, rotor equipment, landing gear and associated equipment, environmental controls, racks, mounts, intersystem cables and distribution boxes. Propulsion/Drive/Rotor Systems together with Engine Electronic Digital Engine Control Unit (EDECU) and Common Hydro-Mechanical Unit (CHMU) provides the capability to carry a heavier combat payload and allow for enhanced performance in high-altitude, hot climates. Landing Gear improvements (High Performance Shock Struts (HPSS)) will improve the aircraft crash survivability and allows for a heavier aircraft with greater combat loads. Provides sustainment, support and maintenance for the Apache test aircraft.

Mission Command includes modifications and/or upgrades to the various Apache processors and displays. Mission Computer / Processing modifications and/or upgrades include improvements to the master data processing unit(s) responsible for coordinating and directing the major avionics mission systems. System Simulation and Software Integration (S3I) Crew Station Working Group (CSWG) provides support for an AH-64E Engineering Analysis Cockpit as part of the Advance Prototyping and Engineering Experimentation (APBEX2) Lab to support continuous Operational Flight Program (OFP) software sustainment and product improvement. Battlefield Operations and Support System (BOSS) supports developmental / formal test to ensure interoperability and assists in certification testing of the Apache data link implementation. Data Link Test Tools (DLTT) supports developmental / formal test to ensure interoperability and assists in certification testing of the Apache data link implementation.

Sensors includes modifications, operational improvements, and/or mitigation of capability issues to the Apache Sensor suite, which includes the MTADS/PNVS and the Modernized Day Sensor Assembly (MDSA). MDSA replaces the legacy DSA components, adding a laser pointer, eye safe laser, and high definition color-camera capability. MDSA also includes the Modernized Laser Rangefinder/Designator (M-LFRD) which provides enhanced laser ranging, improved target designation, and target tracking capability by holding a stabilized laser beam on a distant stationary or moving point target for a precise handoff to precision guided weapons. M-LFRD replaces the obsolete Laser Transceiver Unit, which mitigates ongoing risk, improves reliability and maintainability, and reduces operations and support costs. MDSA funding enables system procurement / production, software integration, tooling, and test equipment procurement.

Support Elements include the modification and production of those items, which are not part of the aircraft system but are required to maintain, service, or calibrate the aircraft systems or portions of the aircraft system while not directly engaged in the performance of its mission and will not be in the inventory for support of other weapon systems. Post Production Organic support establishes Depot Pilot Programs at Corpus Christi Army Depot (CCAD) and Tobyhanna Army Depot (TYAD) for selected Depot Level Repairables (DLR) as part of the Original Equipment Manufacturer (OEM) to Depot Transition. Post Production Organic Support (PPOS) provides Depot Maintenance Plant Equipment, Special Tools and Test Equipment, labor training and associated technical data for future repairs once the DLR has transitioned to the depot. PPOS improves Repair Turn Around Time and retain depot maintenance capabilities.

Training Systems include deliverable training services, Operator and Maintainer training devices, accessories, training aids, equipment, and parts used to facilitate instruction through which personnel will learn to operate and maintain the system with maximum efficiency. Examples include Operator / Maintainer Training (aircraft/classroom) devices, Cyber/RMF activities and new systems integration/concurrency to the

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
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ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

suite of training devices/systems, and updates to allow individual/team training tasks and collective training. Efforts include the production and upgrade of deliverable and fielded training systems, devices and equipment; updates to associated device/product hardware and software in the form of 3D Virtual Immersive Training, 3D models and desktop crew station emulation capability.

Apache will Federate the Spike NLOS (Non Line Of Sight) missile system by providing Program Management, Systems Engineering, Development Test, Live Fire Test, Life Cycle Management and Integrated Logistics. This effort will support the directed requirement for the AH-64D/E interim Long Range Precision Munition (LRPM) solution. The Army will optimize the Aviation munitions portfolio as part of this strategy creating reinvestment opportunities to close existing lethality gaps by making the portfolio sufficiently lethal for both manned and unmanned platforms against a broad range of increasingly more sophisticated threats. The Spike NLOS Kit consists of a bus controller, video recorder, weapons controller panel, hand control grip, weapons processor, communication pod, power relay box and associated wiring harnesses. Final fielded configuration will include 18 kits and 3 spares. The FY22 quantity reflects B-kit procurement of Spike NLOS hardware, and not procurement of A-kit hardware. B-kit hardware encompasses all the components to field Spike (launchers and line replaceable kits), as well as the bulk cost (~$45m) of the APA dollars spent. A-kit components, while also required to field Spike NLOS, are the wiring harnesses and adapters which represent a significantly lower cost.

The Other Support costs that are identified in each Modification Item are proportionately shared between all Apache funding lines. These costs are for personnel that perform duties associated with Safety, Compliance, Training, Product Support, Engineering Services, and Logistics.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	99.816	118.560	85.840	-	85.840	66.270	5.072	66.498	66.256
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**99.816**	**118.560**	**85.840**	**-**	**85.840**	**66.270**	**5.072**	**66.498**	**66.256**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 2706AA6605 / AH-64 MODS	**Modification Number / Title:** AA6606 / AH-64 APACHE MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: Longbow Apache	**Modification Type:** Operational & Reliability Improvements and Resolve Obsolescence Issues	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Procurement												
Modification Item 1 of 7: Airframe												
A Kits												
Recurring												
Structural Subsystems	- / 12.535	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Health Monitoring System	- / 43.164	- / 10.036	- / 10.237	- / 11.847	- / -	- / 11.847	- / 12.152	- / 3.514	- / 12.572	- / 12.896	Continuing	Continuing
RESET / MEP Kits	- / 156.469	- / 20.647	- / 15.658	- / 5.726	- / -	- / 5.726	- / 5.262	- / -	- / -	- / -	Continuing	Continuing
Other Support	- / 8.352	- / 3.004	- / 3.913	- / 2.412	- / -	- / 2.412	- / 2.114	- / 0.684	- / 11.546	- / 12.393	Continuing	Continuing
Subtotal: Recurring	*- / 220.520*	*- / 33.687*	*- / 29.808*	*- / 19.985*	*- / -*	*- / 19.985*	*- / 19.528*	*- / 4.198*	*- / 24.118*	*- / 25.289*	*Continuing*	*Continuing*
Subtotal: Airframe	*- / 220.520*	*- / 33.687*	*- / 29.808*	*- / 19.985*	*- / -*	*- / 19.985*	*- / 19.528*	*- / 4.198*	*- / 24.118*	*- / 25.289*	*Continuing*	*Continuing*
Modification Item 2 of 7: Mission Command												
A Kits												
Recurring												
Processors	- / 62.596	- / 10.811	- / 27.411	- / 31.046	- / -	- / 31.046	- / 28.472	- / 0.099	- / 20.438	- / 19.202	Continuing	Continuing
Displays	- / 7.186	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.186
Other Support	- / 4.808	- / 1.058	- / 4.086	- / 4.262	- / -	- / 4.262	- / 3.457	- / 0.019	- / 18.769	- / 18.454	Continuing	Continuing
Subtotal: Recurring	*- / 74.590*	*- / 11.869*	*- / 31.497*	*- / 35.308*	*- / -*	*- / 35.308*	*- / 31.929*	*- / 0.118*	*- / 39.207*	*- / 37.656*	*Continuing*	*Continuing*
Subtotal: Mission Command	*- / 74.590*	*- / 11.869*	*- / 31.497*	*- / 35.308*	*- / -*	*- / 35.308*	*- / 31.929*	*- / 0.118*	*- / 39.207*	*- / 37.656*	*Continuing*	*Continuing*
Modification Item 3 of 7: Sensors												
A Kits												
Recurring												
MTADS/PNVS	- / 37.896	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.896
M-RFI	27 / 43.338	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 43.338
Other Support	- / 23.320	- / 0.891	- / 1.936	- / 2.361	- / -	- / 2.361	- / 0.409	- / 0.072	- / 0.594	- / 0.635	- / -	- / 30.218
Sensor Modernization	- / -	- / 0.221	- / 0.153	- / 3.933	- / -	- / 3.933	- / 3.365	- / 0.372	- / 0.647	- / 0.660	- / -	- / 9.351
Subtotal: Recurring	*27 / 104.554*	*- / 1.112*	*- / 2.089*	*- / 6.294*	*- / -*	*- / 6.294*	*- / 3.774*	*- / 0.444*	*- / 1.241*	*- / 1.295*	*- / -*	*27 / 120.803*
B Kits												
Recurring												
M-LRFD	150 / 49.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 49.834
M-DSA	304 / 362.202	6 / 8.879	10 / 12.831	6 / 13.263	- / -	6 / 13.263	- / -	- / -	- / -	- / -	- / -	326 / 397.175
Subtotal: Recurring	*454 / 412.036*	*6 / 8.879*	*10 / 12.831*	*6 / 13.263*	*- / -*	*6 / 13.263*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*476 / 447.009*

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
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ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: Longbow Apache	**Modification Type:** Operational & Reliability Improvements and Resolve Obsolescence Issues	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Subtotal: Sensors	*481 / 516.590*	*6 / 9.991*	*10 / 14.920*	*6 / 19.557*	*- / -*	*6 / 19.557*	*- / 3.774*	*- / 0.444*	*- / 1.241*	*- / 1.295*	*- / -*	*503 / 567.812*
Modification Item 4 of 7: Training Systems												
A Kits												
Recurring												
Operator Devices	- / 106.612	- / 0.673	- / 0.686	- / 0.958	- / -	- / 0.958	- / 0.938	- / -	- / 0.741	- / 0.756	Continuing	Continuing
Maintainer Devices	- / 31.117	- / 3.925	- / 4.003	- / 4.372	- / -	- / 4.372	- / 4.459	- / -	- / -	- / -	Continuing	Continuing
Other Support	- / 11.910	- / 0.610	- / 0.921	- / 1.327	- / -	- / 1.327	- / 1.195	- / 0.051	- / 0.925	- / 0.988	Continuing	Continuing
Courseware and Devices	- / -	- / 1.628	- / 1.488	- / 4.333	- / -	- / 4.333	- / 4.447	- / 0.261	- / 0.266	- / 0.272	Continuing	Continuing
Subtotal: Recurring	*- / 149.639*	*- / 6.836*	*- / 7.098*	*- / 10.990*	*- / -*	*- / 10.990*	*- / 11.039*	*- / 0.312*	*- / 1.932*	*- / 2.016*	*Continuing*	*Continuing*
Subtotal: Training Systems	*- / 149.639*	*- / 6.836*	*- / 7.098*	*- / 10.990*	*- / -*	*- / 10.990*	*- / 11.039*	*- / 0.312*	*- / 1.932*	*- / 2.016*	*Continuing*	*Continuing*
Modification Item 5 of 7: Hellfire Missile Launchers												
A Kits												
Recurring												
Hellfire Missile Launchers	- / 50.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 50.000
Subtotal: Recurring	*- / 50.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 50.000*
Subtotal: Hellfire Missile Launchers	*- / 50.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 50.000*
Modification Item 6 of 7: AH-64 Mods Prior Year Cost												
A Kits												
Recurring												
AH-64 Mods Prior Year Cost	- / 8,042.349	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8,042.349
Subtotal: Recurring	*- / 8,042.349*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 8,042.349*
Subtotal: AH-64 Mods Prior Year Cost	*- / 8,042.349*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 8,042.349*
Modification Item 7 of 7: Spike NLOS Integration												
A Kits												
Recurring												
Spike NLOS Integration	- / -	- / -	6 / 35.237	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 35.237
Subtotal: Recurring	*- / -*	*- / -*	*6 / 35.237*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*6 / 35.237*
B Kits												
Recurring												
Spike NLOS Hardware	- / -	15 / 37.433	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 37.433

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ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: Longbow Apache	**Modification Type:** Operational & Reliability Improvements and Resolve Obsolescence Issues	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Subtotal: Recurring	- / -	15 / 37.433	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 37.433
Subtotal: Spike NLOS Integration	- / -	15 / 37.433	6 / 35.237	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 72.670
Subtotal: Procurement, All Modification Items	481 / 9,053.688	21 / 99.816	16 / 118.560	6 / 85.840	- / -	6 / 85.840	- / 66.270	- / 5.072	- / 66.498	- / 66.256	Continuing	Continuing
Installation												
Modification Item 1 of 7: Airframe	1 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -
Modification Item 2 of 7: Mission Command	1 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -
Modification Item 3 of 7: Sensors	481 / -	- / -	10 / -	6 / -	- / -	6 / -	- / -	- / -	- / -	- / -	- / -	497 / -
Modification Item 4 of 7: Training Systems	1 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -
Modification Item 5 of 7: Hellfire Missile Launchers	1 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -
Modification Item 6 of 7: AH-64 Mods Prior Year Cost	1 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -
Modification Item 7 of 7: Spike NLOS Integration	- / -	15 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / -
Subtotal: Installation	486 / -	15 / -	10 / -	6 / -	- / -	6 / -	- / -	- / -	- / -	- / -	- / -	517 / -
Total												
Total Cost (Procurement + Support + Installation)	**9,053.688**	**99.816**	**118.560**	**85.840**	**-**	**85.840**	**66.270**	**5.072**	**66.498**	**66.256**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 2706AA6605 / AH-64 MODS	**Modification Number / Title:** AA6606 / AH-64 APACHE MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 7: Airframe

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Modifications

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 2706AA6605 / AH-64 MODS	**Modification Number / Title:** AA6606 / AH-64 APACHE MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 2 of 7: Mission Command

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: .

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 2706AA6605 / AH-64 MODS	**Modification Number / Title:** AA6606 / AH-64 APACHE MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 3 of 7: Sensors

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime *(in Months)*: 2	Production Leadtime *(in Months)*: 24

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

Installation Information

Method of Implementation: Modifications

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	303 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	303 / 0.000
FY 2021	120 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 0.000
FY 2022	58 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	58 / 0.000
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	10 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.000
FY 2026	- / -	- / -	- / -	6 / 0.000	- / -	6 / 0.000	- / -	- / -	- / -	- / -	- / -	6 / 0.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	481 / 0.000	- / -	10 / 0.000	6 / 0.000	- / -	6 / 0.000	- / -	- / -	- / -	- / -	- / -	497 / 0.000

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	488	5	6	4	4	3	3	3	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	523
Out	423	26	-	13	19	3	4	-	-	5	6	4	4	3	3	3	2	5	-	-	-	-	-	-	-	-	-	-	-	-	523

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 2706AA6605 / AH-64 MODS	**Modification Number / Title:** AA6606 / AH-64 APACHE MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 4 of 7: Training Systems

Manufacturer Information

Manufacturer Name: Boeing / LSI Inc	Manufacturer Location: St. Louis, MO / Jacksonville, FL
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Field Retrofits

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 2706AA6605 / AH-64 MODS	**Modification Number / Title:** AA6606 / AH-64 APACHE MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 5 of 7: Hellfire Missile Launchers

Manufacturer Information

Manufacturer Name: Lockheed Martin Missiles and Fire Control	Manufacturer Location: Orlando, Florida
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Arnament

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 2706AA6605 / AH-64 MODS	**Modification Number / Title:** AA6606 / AH-64 APACHE MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 6 of 7: AH-64 Mods Prior Year Cost

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Modifications

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 2706AA6605 / AH-64 MODS	**Modification Number / Title:** AA6606 / AH-64 APACHE MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 7 of 7: Spike NLOS Integration

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Orlando, Florida
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*: 16

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

Installation Information

Method of Implementation: TBD

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	15 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	15 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.000

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
Out	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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: 278

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	11,081.938	15.548	21.918	11.215	-	11.215	13.343	3.455	18.267	18.200	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	1,168.857	-	-	-	-	-	-	-	-	-	-	1,168.857
Net Procurement (P-1) *($ in Millions)*	9,913.081	15.548	21.918	11.215	-	11.215	13.343	3.455	18.267	18.200	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	1,168.857	-	-	-	-	-	-	-	-	-	-	1,168.857
Total Obligation Authority *($ in Millions)*	**11,081.938**	**15.548**	**21.918**	**11.215**	**-**	**11.215**	**13.343**	**3.455**	**18.267**	**18.200**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The CH-47F Chinook, the Army's only heavy lift helicopter, is an essential component of the Army's Multi-Domain Battle framework.

The major modifications to the CH-47F include: the development, test, and fielding of updates for the Common Avionics Architecture System (CAAS) and the Digital Automatic Flight Control System (DAFCS) that provide improvements in cyber security, COMSEC, and aircraft handling qualities; the fielding of the Cargo Platform Health Environment (CPHE), the Improved Vibration Control System to COMPOS 2 & 3, Training Aids Devices Simulators and Simulations (TADSS) concurrency with the fleet, equipment refresh, the enduring requirement for software enhancement, and avionics hardware refresh and safety improvements. The Block I aircraft, with provisions for anticipated upgrades, is postured to support the rigorous demands of Multi-Domain Operations.

Avionics updates and safety improvements to maintain the H-47 Avionics and Software systems include: the Common Avionics Architecture System (CAAS), the Digital Automatic Flight Control System (DAFCS), and the Cargo Platform Health Environment (CPHE) systems. Requirements driven by changes in military interoperability, cyber security threats, and commercial airspace navigation require software systems updates, testing, integration, training and logistics support. The funding priorities are the development, testing, and fielding of improvements in cyber security, aircraft handling qualities, Degraded Visual Environment (DVE) performance, COMSEC improvements, A-PNT integration, multi-core processors, and expansion of the flexibility provided by the CAAS Modular Open Systems Approach. The rapid pace of change in the commercial electronics hardware market, the evolving cyber security threats, and the requirement to remain interoperable, create a need for recurring updates to the design of avionics hardware and software.

Training Aids, Devices, Simulators, and Simulations (TADSS) system computers and projectors require a technical refresh. If any of these systems fail, all TADSS devices (Transportable Flight Proficiency Simulator (TFPS), Chinook Maintenance Trainer (CHMT), Chinook Avionics Trainer (CAT), and Virtual Interactive Environment (VIE)) will not function, negatively impacting aircrew and maintainer training and availability at the unit level. The CATs require concurrency upgrades to match the CH-47F CAAS V9.4 and DAFCS 3.3 fleet configuration enhancements.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.514	21.918	11.215	-	11.215	13.343	3.455	18.267	18.200
ANG	Quantity	-	-	-	-	-	-	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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: 278

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
	Total Obligation Authority	2.034	-	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**15.548**	**21.918**	**11.215**	**-**	**11.215**	**13.343**	**3.455**	**18.267**	**18.200**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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: 278

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-3a	AA0252 / CH-47 Cargo Helicopter Mods (MYP) (Unclassified)				- / 11,081.938	- / 15.548	- / 21.918	- / 11.215	- / -	- / 11.215
P-40	**Total Gross/Weapon System Cost**				**- / 11,081.938**	**- / 15.548**	**- / 21.918**	**- / 11.215**	**- / -**	**- / 11.215**

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-3a	AA0252 / CH-47 Cargo Helicopter Mods (MYP) (Unclassified)				- / 13.343	- / 3.455	- / 18.267	- / 18.200	Continuing	Continuing
P-40	**Total Gross/Weapon System Cost**				**- / 13.343**	**- / 3.455**	**- / 18.267**	**- / 18.200**	**Continuing**	**Continuing**

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

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

Justification:
FY2023 Base procurement dollars in the amount of $11.215 million supports avionics updates and improvements fielded across the fleet.

Funding procures critical avionics updates and safety improvements to maintain the H-47 Avionics and Software systems including the Common Avionics Architecture System (CAAS) and the Digital Automatic Flight Control System (DAFCS). Requirements driven by changes in military interoperability, cyber security threats, and commercial airspace navigation require software systems updates, testing, integration, training and logistics support. The funding priorities are the development, testing, and fielding of improvements in cyber security, aircraft handling qualities, Degraded Visual Environment (DVE) performance, COMSEC improvements, A-PNT integration, multi-core processors, and expansion of the flexibility provided by the CAAS Modular Open Systems Approach.

FY 22 Congressional Add of $12.000 million: FY22 Congressional add of $10.000 million is for Hybrid Enhanced Ballistic Missile Protection System, FY22 Congressional add of $2.000 million is for Improved Vibration Control System.

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

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	11,081.938	15.548	21.918	11.215	-	11.215	13.343	3.455	18.267	18.200	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	1,168.857	-	-	-	-	-	-	-	-	-	-	1,168.857
Net Procurement (P-1) *($ in Millions)*	9,913.081	15.548	21.918	11.215	-	11.215	13.343	3.455	18.267	18.200	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	1,168.857	-	-	-	-	-	-	-	-	-	-	1,168.857
Total Obligation Authority *($ in Millions)*	**11,081.938**	**15.548**	**21.918**	**11.215**	**-**	**11.215**	**13.343**	**3.455**	**18.267**	**18.200**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Avionics updates and safety improvements to maintain the H-47 Avionics and Software systems include: the Common Avionics Architecture System (CAAS), the Digital Automatic Flight Control System (DAFCS), and the Cargo Platform Health Environment (CPHE) systems. Requirements driven by changes in military interoperability, cyber security threats, and commercial airspace navigation require software systems updates, testing, integration, training and logistics support. The funding priorities are the development, testing, and fielding of improvements in cyber security, aircraft handling qualities, Degraded Visual Environment (DVE) performance, COMSEC improvements, A-PNT integration, multi-core processors, and expansion of the flexibility provided by the CAAS Modular Open Systems Approach.

CAAS provides the primary interface to the pilots for all aircraft systems. It monitors aircraft health, provides sophisticated navigation and communication capabilities, and provides tactical situational awareness and interoperability. The DAFCS provides aircraft stability and handling qualities necessary for safe aircraft handling in a variety of environmental and weather conditions. The CPHE system provides the mechanism to complete necessary rotor track and balance activities, evaluate drivetrain vibration levels for maintenance purposes, and record and evaluate the data necessary to have a Condition Based Maintenance and a Health and Usage Monitoring program. These three systems run on specialized computers that primarily consist of commercial electronic components. The rapid pace of change in the commercial electronics hardware market, the evolving cyber security threats, and the requirement to remain interoperable, create a need for recurring updates to the design of avionics hardware and software.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.514	21.918	11.215	-	11.215	13.343	3.455	18.267	18.200
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.034	-	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**15.548**	**21.918**	**11.215**	**-**	**11.215**	**13.343**	**3.455**	**18.267**	**18.200**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: CH-47	**Modification Type:** Unclassified	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Procurement												
Modification Item 1 of 10: Block I Software & Avionics Upgrades												
A Kits												
Non-Recurring												
Avionics Updates (CAAS, DAFCS, CPHE)	- / 18.119	- / 7.472	- / 4.085	- / 8.105	- / -	- / 8.105	- / 10.233	- / 0.345	- / 15.157	- / 15.090	Continuing	Continuing
Safety Impr (DVE, SW Corrections, Cyber)	- / 1.178	- / 4.966	- / 2.723	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Subtotal: Non-Recurring	*- / 19.297*	*- / 12.438*	*- / 6.808*	*- / 8.105*	*- / -*	*- / 8.105*	*- / 10.233*	*- / 0.345*	*- / 15.157*	*- / 15.090*	*Continuing*	*Continuing*
B Kits												
Recurring												
SEPM	- / 0.295	- / 3.110	- / 3.110	- / 3.110	- / -	- / 3.110	- / 3.110	- / 3.110	- / 3.110	- / 3.110	Continuing	Continuing
Subtotal: Recurring	*- / 0.295*	*- / 3.110*	*- / 3.110*	*- / 3.110*	*- / -*	*- / 3.110*	*- / 3.110*	*- / 3.110*	*- / 3.110*	*- / 3.110*	*Continuing*	*Continuing*
Subtotal: Block I Software & Avionics Upgrades	*- / 19.592*	*- / 15.548*	*- / 9.918*	*- / 11.215*	*- / -*	*- / 11.215*	*- / 13.343*	*- / 3.455*	*- / 18.267*	*- / 18.200*	*Continuing*	*Continuing*
Modification Item 2 of 10: Block I CH-47 Safety Mods $5M or Less												
A Kits												
Recurring												
Voltage Standing Wave Ratio (VSWR)	- / 2.239	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FCTS (FADEC Continuity Test Set)	- / 6.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Misc Mods	- / 15.592	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Swashplate Assembly	- / 0.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Hook Load Measuring System	- / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Engine Air Particle Separator (EAPS)	- / 21.195	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
PM Support	- / 11.776	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Frangible Fuel Fitting	- / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Subtotal: Recurring	*- / 77.807*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*Continuing*	*Continuing*
Non-Recurring												
Critical Safety Issues	1 / 7.414	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Subtotal: Non-Recurring	*1 / 7.414*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*Continuing*	*Continuing*
Subtotal: Block I CH-47 Safety Mods $5M or Less	*1 / 85.221*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*Continuing*	*Continuing*
Modification Item 3 of 10: Block I Improved Vibration Control System (IVCS)												

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: CH-47	**Modification Type:** Unclassified	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
A Kits												
Recurring												
Kits	251 / 133.534	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
PM Support	- / 1.275	- / -	- / 0.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Subtotal: Recurring	*251 / 134.809*	*- / -*	*- / 0.750*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*Continuing*	*Continuing*
Subtotal: Block I Improved Vibration Control System (IVCS)	*251 / 134.809*	*- / -*	*- / 0.750*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*Continuing*	*Continuing*
Modification Item 4 of 10: Block I COOLS & COOLS BPS												
A Kits												
Recurring												
Cargo Handling Floor System	- / 1,854.411	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,854.411
Ballistic Protection System (BPS)	- / 333.768	- / -	30 / 8.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 342.268
PM Support	- / 4.408	- / -	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.908
Cargo Handling Floor System (OCO)	- / 29.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.300
PM Support (OCO)	- / 8.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.010
Subtotal: Recurring	*- / 2,229.897*	*- / -*	*30 / 10.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*30 / 2,239.897*
Subtotal: Block I COOLS & COOLS BPS	*- / 2,229.897*	*- / -*	*30 / 10.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*30 / 2,239.897*
Modification Item 5 of 10: Block I Cargo Platform Health Environment (CPHE)												
A Kits												
Recurring												
Kits Type 1	131 / 3,075.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / 42.387	330 / 3,117.445
CPHE Software Upgrade	- / 595.796	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 595.796
Services	- / 57.549	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 57.549
PM Support	- / 1.170	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.170
Subtotal: Recurring	*131 / 3,729.573*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*199 / 42.387*	*330 / 3,771.960*
Non-Recurring												
NRE	- / 6.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.751
Subtotal: Non-Recurring	*- / 6.751*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 6.751*
Subtotal: Block I Cargo Platform Health Environment (CPHE)	*131 / 3,736.324*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*199 / 42.387*	*330 / 3,778.711*

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: CH-47	**Modification Type:** Unclassified	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Modification Item 6 of 10: Improved Troop Seats (ITS)												
A Kits												
Recurring												
Installation Kits	- / 14.653	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.653
Subtotal: Recurring	*- / 14.653*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 14.653*
Subtotal: Improved Troop Seats (ITS)	*- / 14.653*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 14.653*
Modification Item 7 of 10: Block I Adjustable Pitch Change Link												
A Kits												
Recurring												
Pitch Change Links	- / 2.311	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.311
PM Support	- / 0.158	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.158
Subtotal: Recurring	*- / 2.469*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 2.469*
Non-Recurring												
NRE	- / 15.582	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.582
Subtotal: Non-Recurring	*- / 15.582*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 15.582*
Subtotal: Block I Adjustable Pitch Change Link	*- / 18.051*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 18.051*
Modification Item 8 of 10: Block I Engine Improvements												
A Kits												
Recurring												
T55 Engine Control Unit Prog (ECU)	- / 45.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 45.000
New Engines	- / 4,495.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4,495.000
P3 Check Valve	- / 4.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.900
Next Generation Torque System	- / 14.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.500
Logistics	- / 39.953	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 39.953
ECU Upgrade	- / 5.760	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.760
RIMFIRE	- / 2.159	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.159
PM Admin Support	- / 4.613	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.613
Subtotal: Recurring	*- / 4,611.885*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 4,611.885*
Non-Recurring												
ECP NRE/Incorporation	- / 1.062	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.062

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: CH-47	**Modification Type:** Unclassified	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Subtotal: Non-Recurring	- / 1.062	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.062
Subtotal: Block I Engine Improvements	- / 4,612.947	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4,612.947
Modification Item 9 of 10: Block I Aircraft Component Parts-Marking (UID)												
A Kits												
Non-Recurring												
Component Markings	- / 37.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.506
Subtotal: Non-Recurring	- / 37.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.506
Subtotal: Block I Aircraft Component Parts-Marking (UID)	- / 37.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.506
Modification Item 10 of 10: Block I Systems Optimization & Payload Restoration												
A Kits												
Recurring												
PM Support	- / 7.853	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.853
Subtotal: Recurring	- / 7.853	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.853
Non-Recurring												
NRE	- / 157.065	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 157.065
Subtotal: Non-Recurring	- / 157.065	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 157.065
Subtotal: Block I Systems Optimization & Payload Restoration	- / 164.918	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 164.918
Subtotal: Procurement, All Modification Items	383 / 11,053.918	- / 15.548	30 / 20.668	- / 11.215	- / -	- / 11.215	- / 13.343	- / 3.455	- / 18.267	- / 18.200	Continuing	Continuing
Installation												
Modification Item 3 of 10: Block I Improved Vibration Control System (IVCS)	23 / 0.983	- / -	38 / 1.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Modification Item 4 of 10: Block I COOLS & COOLS BPS	264 / 19.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	264 / 19.567
Modification Item 5 of 10: Block I Cargo Platform Health Environment (CPHE)	83 / 7.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Subtotal: Installation	370 / 28.020	- / -	38 / 1.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Total												

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: CH-47	**Modification Type:** Unclassified	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Total Cost (Procurement + Support + Installation)	**11,081.938**	**15.548**	**21.918**	**11.215**	**-**	**11.215**	**13.343**	**3.455**	**18.267**	**18.200**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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

Modification Item 1 of 10: Block I Software & Avionics Upgrades

Manufacturer Information

Manufacturer Name: TBD | Manufacturer Location: TBD

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): TBD | **Installation Quantity:** 462

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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

Modification Item 2 of 10: Block I CH-47 Safety Mods $5M or Less

Manufacturer Information

Manufacturer Name: TBD | Manufacturer Location: TBD

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Various | **Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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

Modification Item 3 of 10: Block I Improved Vibration Control System (IVCS)

Manufacturer Information

Manufacturer Name: Boeing | Manufacturer Location: Ridley Park PA

Administrative Leadtime *(in Months)*: 6 | Production Leadtime *(in Months)*: 6

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

Installation Information

Method of Implementation: Various

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	23 / 0.983	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	38 / 1.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	271 / 11.585	271 / 11.585
Total	23 / 0.983	- / -	38 / 1.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing

Installation Schedule

		FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027					
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	251	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	294
Out	23	-	-	-	-	-	-	6	5	-	-	-	-	6	6	6	6	3	-	-	-	-	-	-	-	-	-	-	-	233	294

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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

Modification Item 4 of 10: Block I COOLS & COOLS BPS

Manufacturer Information

Manufacturer Name: Boeing | Manufacturer Location: Ridley Park, PA

Administrative Leadtime *(in Months)*: 1 | Production Leadtime *(in Months)*: 1

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

Installation Information

Method of Implementation: Various

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	264 / 19.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	264 / 19.567
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	264 / 19.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	264 / 19.567

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	264
Out	264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	264

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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

Modification Item 5 of 10: Block I Cargo Platform Health Environment (CPHE)

Manufacturer Information

Manufacturer Name: Boeing | Manufacturer Location: Ridley Park, PA

Administrative Leadtime *(in Months)*: 3 | Production Leadtime *(in Months)*: 6

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

Installation Information

Method of Implementation: Various

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	83 / 7.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	247 / 22.230	247 / 22.230
Total	83 / 7.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing

Installation Schedule

		FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027					
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199	330
Out	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	247	330

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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

Modification Item 6 of 10: Improved Troop Seats (ITS)

Manufacturer Information

Manufacturer Name: Boeing | Manufacturer Location: Ridley Park, PA

Administrative Leadtime *(in Months)*: 4 | Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation (Organic): Various | **Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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

Modification Item 7 of 10: Block I Adjustable Pitch Change Link

Manufacturer Information

Manufacturer Name: Boeing | Manufacturer Location: Ridley Park, PA

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): User Installed | **Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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

Modification Item 8 of 10: Block I Engine Improvements

Manufacturer Information

Manufacturer Name: Honeywell Inc | Manufacturer Location: Phoenix, AZ

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Various | **Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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

Modification Item 9 of 10: Block I Aircraft Component Parts-Marking (UID)

Manufacturer Information

Manufacturer Name: TBD | Manufacturer Location: TBD

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Various | **Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 3264AA0252 / CH-47 Cargo Helicopter Mods (MYP)	**Modification Number / Title:** AA0252 / CH-47 Cargo Helicopter Mods (MYP)

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

Modification Item 10 of 10: Block I Systems Optimization & Payload Restoration

Manufacturer Information

Manufacturer Name: TBD | Manufacturer Location: TBD

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Various | **Installation Quantity:** 0

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 3403A02111 / GRCS SEMA MODS

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	25.579	2.947	2.762	-	-	-	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	25.579	2.947	2.762	-	-	-	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**25.579**	**2.947**	**2.762**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The RC-12X Guardrail Common Sensor (GRCS) is a fixed-wing, airborne Communications Intelligence (COMINT) and Electronic Intelligence (ELINT) collection and precision targeting location system. GRCS provides a persistent capability to detect, locate and classify/identify high value targets with a relevant degree of timeliness and accuracy. GRCS is assigned to two (2) U.S. Army Intelligence and Security Command (INSCOM) Aerial Exploitation Battalions providing Aerial Intelligence, Surveillance and Reconnaissance (AISR) support to combatant commanders. The Army's Acquisition Objective/Army's Procurement Objective is 19 RC-12X; seven (7) fielded to 3rd MI; and seven (7) fielded to the 204th MI, and five (5) trainers within Training and Doctrine Command (TRADOC) and INSCOM.

This funding line supports Army RC-12X aircraft performing the AISR mission. It provides for the procurement and associated testing of civil and military aircraft equipment and future integration efforts. These modifications address all Department of Defense (DoD) mandated safety equipment to international and Army Standards. These modifications ensure continued worldwide deployment capability and safe operations. Lastly, this line supports ongoing modifications in service.

The overall GRCS procurement/modernization efforts are found in the following two lines: AZ2052 Guardrail Payloads (Aircraft Procurement Army (APA) Military Intelligence Program (MIP) P-1 Line #19) and A02111 GRCS SEMA MODS (Aircraft Procurement Army (APA) Military Intelligence Program (MIP) P-1 Line #22). Separate funding lines support the Army Acquisition Executive's directive, codified in the October 28, 2011 memorandum, to assign overall acquisition lead for manned airborne intelligence systems to Program Executive Office for Aviation; and overall sensor, processing, exploitation, and dissemination responsibilities to Program Executive Officer for Intelligence, Electronic Warfare, and Sensors.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.947	2.762	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**2.947**	**2.762**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Justification:

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 3403A02111 / GRCS SEMA MODS	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

FY21 base procurement funding in the amount of $2.947 million was used to support RC-12X aircraft modifications to procure and integrate the 1st Phase Assured Position, Navigation and Timing (A-PNT) solutions (Magna-F); Information Assurance support for aircraft systems; and RC-12X modifications in service. This line also funded the integration of ARC 201 Single Channel Ground Air Radio Systems (SINCGARS) kits to address modernization issues, and modifications to the communications suite.

FY23 base procurement funding for this line is $0.000 million

All COMPO 1. 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.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 3404A02110 / ARL SEMA MODS

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	80.828	9.598	14.437	-	-	-	5.007	5.215	5.240	5.213	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	80.828	9.598	14.437	-	-	-	5.007	5.215	5.240	5.213	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**80.828**	**9.598**	**14.437**	**-**	**-**	**-**	**5.007**	**5.215**	**5.240**	**5.213**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Airborne Reconnaissance Low - Enhanced (ARL-E) is a worldwide self-deployable airborne Intelligence Surveillance Reconnaissance (ISR) system designed for timely, accurate, assured support to tactical forces over the full spectrum of operations. This system is a De Havilland DHC-8 aircraft replacing the DHC-7 IAW the Aerial ISR (AISR) 2020 Strategy. ARL-E will enhance the ARL-M sensor capability sets through the procurement of new and refurbished sensors to meet the ARL-E Capabilities Production Document (CPD) requirements. It provides a persistent capability to include: Broad-Area Surveillance and/or Focused Stare on Target Areas of Interest (Point or Objective Targets), Electro-Optical/Infrared (EO/IR)/Full-Motion Video (FMV) , Multi-Mode Radar, Robust Communications Intelligence (COMINT), on-Board Collection, Analysis, Sensor Cross Cue and dissemination through Distributed Common Ground System-Army (DCGS-A) enabled workstations. ARL-E will be assigned to the U.S. Army Intelligence and Security Command (INSCOM) Aerial ISR Brigade providing AISR support to combatant commanders. For the overall system, the Army Acquisition Objective and the Army Procurement Objective, is nine (9). The Mission Equipment Package (MEP) objective is eight (8).

The funding line supports the conversion of Government Owned Contractor Operated (GOCO) Quick Reaction Capability (QRC) DeHavilland (DHC) 8-315 Aerial Intelligence Surveillance & Reconnaissance aircraft systems, leveraging seven (7) Saturn Arch (SA) and two (2) Desert Owls (DO). It provides for the following: the procurement of spare parts for initial fielding and high value components; procurement, installation and testing of civil and military aircraft equipment and future integration efforts supporting A-ISR modernization in the Multi-Domain Operations (MDO) environment. These modifications address all Department of Defense (DoD) mandated safety equipment to current and evolving international and Army Standards. These modifications ensure continued worldwide deployment capability and safe operations.Lastly, this line supports Pre-planned product improvements (P3I) modifications which includes Assured Position, Navigation and Timing (A-PNT).

Separate funding lines support the Army Acquisition Executive's directive, codified in the October 28, 2011 memorandum, to assign overall acquisition lead for manned airborne Intelligence systems to Program Executive Officer for Aviation; and overall sensor, processing, exploitation, and dissemination responsibilities to Program Executive Officer for Intelligence, Electronic Warfare, and Sensors. The A02110 ARL SEMA Mods (Aircraft Procurement Army (APA) Military Intelligence Program (MIP) P-1 Line #23) budget line provides for aircraft modification and AZ2050 ARL Payloads (Aircraft Procurement Army (APA) Military Intelligence Program (MIP) P-1 Line #19) provides for sensors.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.598	14.437	-	-	-	5.007	5.215	5.240	5.213

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 3404A02110 / ARL SEMA MODS	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.598	14.437	-	-	-	5.007	5.215	5.240	5.213

Justification:
The FY21 base procurement funding in the amount of $9.598 million was used to fund a cockpit for one aircraft. Aircraft Survivability Equipment (ASE) integration onto one aircraft and continued system verification. Fielding and program sparing was put on hold per Army G8 directive pending Army Senior Leader decision on future of ARL-E program.

FY22 received a Congressional Plus up of $5.000 million for APUs.

The FY23 base procurement funding for this line is $0.000 million.

All COMPO 1 Active. 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

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 3405A02112 / EMARSS SEMA MODS

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	240.091	28.912	1.568	1.591	-	1.591	2.033	27.697	27.950	28.197	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	240.091	28.912	1.568	1.591	-	1.591	2.033	27.697	27.950	28.197	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**240.091**	**28.912**	**1.568**	**1.591**	**-**	**1.591**	**2.033**	**27.697**	**27.950**	**28.197**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS) is the Army's newest generation C-12 based, direct support, manned airborne intelligence collection, processing, and targeting support system. It provides a persistent capability to detect, locate, classify/identify, and track surface targets with a high degree of timeliness and accuracy. EMARSS is assigned to the U.S. Army Intelligence and Security Command (INSCOM) Aerial Exploitation Battalions, providing Aerial Intelligence, Surveillance and Reconnaissance support to combatant commanders. EMARSS is also assigned to the United States Army Training and Doctrine Command (TRADOC) in support of training at the US Army Intelligence Center of Excellence (USAICoE). The Army Acquisition Objective for EMARSS is 36 systems, with an Army Procurement Objective of 24, to include the following variants: eight (8) EMARSS-G (Geo-INT); four (4) EMARSS-V (Vehicle and Dismount Exploitation Radar, VaDER); eight (8) EMARSS-M (Multi-INT); and four (4) EMARSS-S (SIGINT).

The budget line supports the conversion of Special Electronic Mission Aircraft (SEMA) Government-owned Quick Reaction Capability (QRC) Aerial Intelligence Surveillance & Reconnaissance (AISR) systems: Liberty Project Aircraft (LPA), Constant Hawk (CH) and Tactical Operations (TACOP), VaDER (Vehicle and Dismount exploitation Radar) into Enhanced Medium Altitude Reconnaissance and Surveillance Systems (EMARSS) Capabilities Production Document (CPD) compliant systems. It provides for the following: the procurement of replacement and spare engines; procurement and associated testing of civil and military aircraft equipment; and integration/installation of ISR Mission Equipment Package (MEP) and future integration efforts supporting A-ISR modernization in the Multi-Domain Operations (MDO) environment. These modifications ensure all Department of Defense (DoD) mandated safety equipment complies with current and evolving international and Army Standards. These modifications ensure continued worldwide deployment capability and safe operations. Lastly, this line supports future modifications in service.

The overall EMARSS procurement/modernization efforts are found in the following two lines; AZ2054 EMARSS Payloads (Aircraft Procurement Army (APA) Military Intelligence Program (MIP) P-1 Line #19) line provides for sensors and A02112 EMARSS SEMA Mods (Aircraft Procurement Army (APA) Military Intelligence Program (MIP) P-1 Line #24) provides for aircraft modifications. Separate funding lines support the Army Acquisition Executive's directive, codified in the October 28, 2011 memorandum, to assign overall acquisition lead for manned airborne intelligence systems to Program Executive Officer for Aviation; and overall sensor, processing, exploitation, and dissemination responsibilities to Program Executive Officer for Intelligence, Electronic Warfare, and Sensors.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	28.912	1.568	1.591	-	1.591	2.033	27.697	27.950	28.197

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 3405A02112 / EMARSS SEMA MODS	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	28.912	1.568	1.591	-	1.591	2.033	27.697	27.950	28.197

Justification:
FY21 Base Procurement dollars in the amount of $2.452 million supported the modifications in service, such as the procurement of Mission Enhancement Kits (MEK). Mission Enhancement kits include PT6A-67A engines, light weight composite propellers, light weight lithium ion batteries and anti-lock braking system which are designed to increase endurance, increase safety, and reduce risk in the extreme environmental conditions of high altitude combined with hot temperature conditions.
FY21 OCO Procurement dollars in the amount of $26.460 million supported the procurement of Mission Enhancement Kits, RESET of EMARSS aircraft, and Preplanned Product Improvement (P3I) for the EMARSS fleet.

FY23 Base Procurement dollars in the amount of $1.591 million supports modifications in service, such as the installation of previously procured Mission Enhancement Kits (MEK). Mission Enhancement kits include PT6A-67A engines, light weight composite propellers, light weight lithium ion batteries and anti-lock braking system which are designed to increase endurance, increase safety, and reduce risk in the extreme environmental conditions of high altitude combined with hot temperature conditions. Mission Enhancement Kits will increase operational capability by allowing the aircraft to carry more fuel, which equates to more time on station. Modifications in service also include modernized avionics, such as Assured Position, Navigation and Timing (A-PNT), cockpit management unit, Blue Force Tracking-Aviation (BFT-AVN) to BFT-2 conversion, APX-123 Transponder to APX-119 Transponder and Aircraft Survivability Equipment (ASE) integration.

All COMPO 1 Active. 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.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 4194AA0270 / Utility/Cargo Airplane Mods

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	407.677	13.868	8.530	-	-	-	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	407.677	13.868	8.530	-	-	-	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**407.677**	**13.868**	**8.530**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The budget line supports the updates and modernization of Army Fixed Wing Aircraft communication, navigation, surveillance, survivability equipment, and Department of Defense (DoD) mandated safety equipment to current and evolving international and Army standards. The budget line provides for the procurement of replacement and spare engines for Fixed Wing Aircraft. In addition, it provides for the procurement and associated testing of civil and military aircraft modification equipment. This budget line will also be used to modify Fixed Wing Aircraft to include Engineer, Furnish and Install (EF&I) of modifications as a complete contractual effort. It also leverages Federal Aviation Administration (FAA) supplemental type certificates (STC) that are already in existence and applies STCs to aircraft modifications. These modifications ensure continued worldwide deployment capability and safe operations. This Procurement line funds aircraft modifications for all three (3) Compos; Active, Army National Guard, and Army Reserve.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.397	8.530	-	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.471	-	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**13.868**	**8.530**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Justification:

FY 2021 Base procurement dollars in the amount of $13.868 million supported aircraft modifications to Communications, Navigation, and Surveillance (CNS), Aircraft Survivability Equipment (ASE), and future Modifications in service that meets current and future air traffic management requirements.

FY 2023 base procurement funding for this line is $0.000 million.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 4194AA0270 / Utility/Cargo Airplane Mods	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

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.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,696.505	46.342	25.326	21.346	-	21.346	28.717	5.114	36.578	36.444	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	13.500	-	-	-	-	-	-	-	-	-	-	13.500
Net Procurement (P-1) *($ in Millions)*	1,683.005	46.342	25.326	21.346	-	21.346	28.717	5.114	36.578	36.444	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	13.500	-	-	-	-	-	-	-	-	-	-	13.500
Total Obligation Authority *($ in Millions)*	**1,696.505**	**46.342**	**25.326**	**21.346**	**-**	**21.346**	**28.717**	**5.114**	**36.578**	**36.444**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Utility Helicopter Mods include modifications to the UH-60 Black Hawk and the UH-72A Lakota helicopters. The UH-60 Black Hawk helicopter is the Army's utility helicopter for the near and midterm force. It is a twin engine, single rotor, four bladed utility helicopter used for air assault, general support, command & control, and aero-medical evacuations (MEDEVAC). The UH-60 is joint force capable, providing 24 hour/day support including operations at night and in adverse weather conditions. The UH-60 is designed to carry a crew of four plus eleven combat equipped troops or an external load up to 9,000 pounds. The UH-60 Black Hawk was fielded in 1978 as a replacement for the UH-1. From 1978 to 1988, UH-60As were produced. In 1989 production of UH-60Ls with improved engines and drive train began. In 2007, full rate production of UH-60Ms began which provided a digital cockpit, digital Flight Management System (FMS), improved engine, and wide-cord main rotor blades. The UH-72A Lakota helicopter provides general aviation support for aviation units in the active and reserve components.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	46.342	25.326	21.346	-	21.346	28.717	5.114	36.578	36.444
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**46.342**	**25.326**	**21.346**	**-**	**21.346**	**28.717**	**5.114**	**36.578**	**36.444**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-3a	AA0492 / UTILITY HELICOPTER MODS (Operational)				- / 1,696.505	- / 46.342	- / 25.326	- / 21.346	- / -	- / 21.346
P-40	**Total Gross/Weapon System Cost**				**- / 1,696.505**	**- / 46.342**	**- / 25.326**	**- / 21.346**	**- / -**	**- / 21.346**

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-3a	AA0492 / UTILITY HELICOPTER MODS (Operational)				- / 28.717	- / 5.114	- / 36.578	- / 36.444	Continuing	Continuing
P-40	**Total Gross/Weapon System Cost**				**- / 28.717**	**- / 5.114**	**- / 36.578**	**- / 36.444**	**Continuing**	**Continuing**

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

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

Justification:

FY21 Congressional Add of Procurement dollars in the amount of $5.5 million, giving a FY21 Total of $46.342 million, will procure the Load Stability System (LSS) for MEDEVAC. The LSS is a piece of equipment utilized during rescue hoist operations to reduce oscillation and spin of the rescue hoist load.

FY21 realignment of funds in the amount of $6.934 million will procure 770 60kVA generator A-kits which will provide additional power for future systems such as Common Infrared Countermeasure (CIRCM), Degraded Visual Environment (DVE), and the Future Waveform Radio.

FY22 Base dollars in the amount of $14.568 million will procure and install Upturned Exhaust Systems I/II (UES I/II). The Upturned Exhaust System I/II (UES I/II) provides a Safety, Reliability, Maintainability, and reduced Weight improvement over the current UES design. It also provides the following benefits: Substantial reductions in IR signature to counter emerging threats; Common hardware across all H-60 platforms; and 100% organic reparability.

FY22 Base dollars in the amount of $1.258 million will procure and install 60 kVA Generator kits. The UH-60L/M/V 60kVA generator provides additional power for future systems such as Common Infrared Countermeasure (CIRCM), Degraded Visual Environment (DVE), and the Future Waveform Radio.

FY22 Congressional Add of Procurement dollars in the amount of $9.5 million will procure 70 A&B 60kVA Generator Shipset Kits which will provide additional power for future systems such as Common Infrared Countermeasure (CIRCM), Degraded Visual Environment (DVE), and the Future Waveform Radio.

FY23 Base dollars in the amount of $4.376 million will procure and install Upturned Exhaust Systems I/II (UES I/II). The Upturned Exhaust System I/II (UES I/II) provides a Safety, Reliability, Maintainability, and reduced Weight improvement over the current UES design. It also provides the following benefits: Substantial reductions in IR signature to counter emerging threats; Common hardware across all H-60 platforms; and 100% organic reparability.

FY23 Base dollars in the amount of $11.689 million will procure and install 60 kVA Generator A-kits. The UH-60L/M/V 60kVA generator provides additional power for future systems such as Common Infrared Countermeasure (CIRCM), Degraded Visual Environment (DVE), and the Future Waveform Radio.

FY23 Base dollars in the amount of $5.281 million will install Electronic Standby Instrument Systems (ESIS). ESIS functions include: Attitude Indication, Slip/Skid Indication, Airspeed, Heading, and Vertical Speed. The system consists of the GH-4001 Backup Attitude Indicator (BAI), MAG-3000 Magnetometer, and Emergency Power Supply. To offset the effects of a dual Attitude Heading Reference Unit (AHRU)

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

failure, installation of a BAI is required to provide attitude information to the pilots in the event a single/dual Fiber Optic Gyro (FOG) failure occurs. The GH-4001 serves as the best long-term solution to the fleet. In order to comply with Army SOF H-60-13-SOF-1, the UH-60A/L is required to have Electronic Standby Instrument System (ESIS) along with dual Attitude Heading Reference System (AHRS).

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.

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,696.505	46.342	25.326	21.346	-	21.346	28.717	5.114	36.578	36.444	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	13.500	-	-	-	-	-	-	-	-	-	-	13.500
Net Procurement (P-1) *($ in Millions)*	1,683.005	46.342	25.326	21.346	-	21.346	28.717	5.114	36.578	36.444	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	13.500	-	-	-	-	-	-	-	-	-	-	13.500
Total Obligation Authority *($ in Millions)*	**1,696.505**	**46.342**	**25.326**	**21.346**	**-**	**21.346**	**28.717**	**5.114**	**36.578**	**36.444**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY21 Congressional Add of Procurement dollars in the amount of $5.5 million, giving a FY21 Total of $46.342 million, will procure the Load Stability System (LSS) for MEDEVAC. The LSS is a piece of equipment utilized during rescue hoist operations to reduce oscillation and spin of the rescue hoist load.

FY21 realignment of funds in the amount of $6.934 million will procure 770 60kVA generator A-kits which will provide additional power for future systems such as Common Infrared Countermeasure (CIRCM), Degraded Visual Environment (DVE), and the Future Waveform Radio.

FY22 Base dollars in the amount of $14.568 million will procure and install Upturned Exhaust Systems I/II (UES I/II). The Upturned Exhaust System I/II (UES I/II) provides a Safety, Reliability, Maintainability, and reduced Weight improvement over the current UES design. It also provides the following benefits: Substantial reductions in IR signature to counter emerging threats; Common hardware across all H-60 platforms; and 100% organic reparability.

FY22 Base dollars in the amount of $1.258 million will procure and install 60 kVA Generator kits. The UH-60L/M/V 60kVA generator provides additional power for future systems such as Common Infrared Countermeasure (CIRCM), Degraded Visual Environment (DVE), and the Future Waveform Radio.

FY22 Congressional Add of Procurement dollars in the amount of $9.5 million will procure 70 A&B 60kVA Generator Shipset Kits which will provide additional power for future systems such as Common Infrared Countermeasure (CIRCM), Degraded Visual Environment (DVE), and the Future Waveform Radio.

FY23 Base dollars in the amount of $4.376 million will procure and install Upturned Exhaust Systems I/II (UES I/II). The Upturned Exhaust System I/II (UES I/II) provides a Safety, Reliability, Maintainability, and reduced Weight improvement over the current UES design. It also provides the following benefits: Substantial reductions in IR signature to counter emerging threats; Common hardware across all H-60 platforms; and 100% organic reparability.

FY23 Base dollars in the amount of $11.689 million will procure and install 60 kVA Generator A-kits. The UH-60L/M/V 60kVA generator provides additional power for future systems such as Common Infrared Countermeasure (CIRCM), Degraded Visual Environment (DVE), and the Future Waveform Radio.

FY23 Base dollars in the amount of $5.281 million will install Electronic Standby Instrument Systems (ESIS). ESIS functions include: Attitude Indication, Slip/Skid Indication, Airspeed, Heading, and Vertical Speed. The system consists of the GH-4001 Backup Attitude Indicator (BAI), MAG-3000 Magnetometer, and Emergency Power Supply. To offset the effects of a dual Attitude Heading Reference Unit (AHRU) failure, installation of a BAI is required to provide attitude information to the pilots in the event a single/dual Fiber Optic Gyro (FOG) failure occurs. The GH-4001 serves as the best long-term solution to the fleet. In order to comply with Army SOF H-60-13-SOF-1, the UH-60A/L is required to have Electronic Standby Instrument System (ESIS) along with dual Attitude Heading Reference System (AHRS).

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	46.342	25.326	21.346	-	21.346	28.717	5.114	36.578	36.444
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**46.342**	**25.326**	**21.346**	**-**	**21.346**	**28.717**	**5.114**	**36.578**	**36.444**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH-60, UH-72	**Modification Type:** Operational	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Procurement												
Modification Item 1 of 14: UH-60A to UH-60L Conversion												
A Kits												
Recurring												
other	276 / 375.248	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	276 / 375.248
Subtotal: Recurring	*276 / 375.248*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*276 / 375.248*
Non-Recurring												
other	- / 974.469	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 974.469
Subtotal: Non-Recurring	*- / 974.469*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 974.469*
Subtotal: UH-60A to UH-60L Conversion	*276 / 1,349.717*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*276 / 1,349.717*
Modification Item 2 of 14: External High Speed Hoist												
A Kits												
Recurring												
Other	285 / 82.321	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	285 / 82.321
Subtotal: Recurring	*285 / 82.321*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*285 / 82.321*
Subtotal: External High Speed Hoist	*285 / 82.321*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*285 / 82.321*
Modification Item 3 of 14: Backup Altitude Indicators												
A Kits												
Recurring												
Kit Quantity	265 / 14.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	265 / 14.000
Subtotal: Recurring	*265 / 14.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*265 / 14.000*
Subtotal: Backup Altitude Indicators	*265 / 14.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*265 / 14.000*
Modification Item 4 of 14: Crashworthy External Fuel System (CEFS)												
A Kits												
Recurring												
A-Kits (A/L)	822 / 45.857	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	822 / 45.857
A-Kits (GFE to Production)	32 / 2.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 2.700
A-Kits (GFE to SAR Acft)	10 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.600
B-kits	431 / 56.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	431 / 56.200
Support Equipment/Other	- / 34.563	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.563

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH-60, UH-72	**Modification Type:** Operational	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Subtotal: Recurring	*1,295 / 139.920*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*1,295 / 139.920*
Subtotal: Crashworthy External Fuel System (CEFS)	*1,295 / 139.920*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*1,295 / 139.920*
Modification Item 5 of 14: Engine Inlet Barrier Filter (EIBF)												
A Kits												
Recurring												
EIBF A-Kit	30 / 0.840	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.840
Subtotal: Recurring	*30 / 0.840*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*30 / 0.840*
B Kits												
Recurring												
EIBF B-Kit	50 / 5.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 5.500
Subtotal: Recurring	*50 / 5.500*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*50 / 5.500*
Subtotal: Engine Inlet Barrier Filter (EIBF)	*80 / 6.340*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*80 / 6.340*
Modification Item 6 of 14: Enhanced Ballistic Armor Protection System (EBAPS)												
A Kits												
Recurring												
EBAPs Kit	304 / 30.640	71 / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	375 / 40.640
Other	- / 5.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.000
Subtotal: Recurring	*304 / 35.640*	*71 / 10.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*375 / 45.640*
Subtotal: Enhanced Ballistic Armor Protection System (EBAPS)	*304 / 35.640*	*71 / 10.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*375 / 45.640*
Modification Item 7 of 14: UH-72 Sustainability Improvements												
A Kits												
Non-Recurring												
UH-72 Sustainability Improvements	- / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.000
Subtotal: Non-Recurring	*- / 10.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 10.000*
Subtotal: UH-72 Sustainability Improvements	*- / 10.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 10.000*
Modification Item 8 of 14: UH-60M Weight Reduction - Tail Rotor System Design												
A Kits												
Non-Recurring												

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH-60, UH-72	**Modification Type:** Operational	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
UH-60M Weight Reduction Tail Rotor Desig	- / 6.000	- / 5.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.000
Subtotal: Non-Recurring	*- / 6.000*	*- / 5.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 11.000*
Subtotal: UH-60M Weight Reduction - Tail Rotor System Design	*- / 6.000*	*- / 5.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 11.000*
Modification Item 9 of 14: Electronic Standby Instrument System (ESIS)												
A Kits												
Recurring												
A Kit Recurring	33 / 4.877	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 4.877
Subtotal: Recurring	*33 / 4.877*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*33 / 4.877*
B Kits												
Recurring												
B Kit Recurring	26 / 4.804	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 4.804
Subtotal: Recurring	*26 / 4.804*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*26 / 4.804*
Subtotal: Electronic Standby Instrument System (ESIS)	*59 / 9.681*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*59 / 9.681*
Modification Item 10 of 14: Generators 60 kVA												
A Kits												
Recurring												
Generator A-Kits	- / -	42 / 0.404	8 / 0.078	1,076 / 10.290	- / -	1,076 / 10.290	- / -	- / -	- / -	- / -	- / -	1,126 / 10.772
Subtotal: Recurring	*- / -*	*42 / 0.404*	*8 / 0.078*	*1,076 / 10.290*	*- / -*	*1,076 / 10.290*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*1,126 / 10.772*
B Kits												
Recurring												
Generator B-Kits	90 / 12.615	38 / 5.181	8 / 1.113	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	136 / 18.909
Subtotal: Recurring	*90 / 12.615*	*38 / 5.181*	*8 / 1.113*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*136 / 18.909*
Subtotal: Generators 60 kVA	*90 / 12.615*	*80 / 5.585*	*16 / 1.191*	*1,076 / 10.290*	*- / -*	*1,076 / 10.290*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*1,262 / 29.681*
Modification Item 11 of 14: Upturned Exhaust System I and II (UES I/II)												
B Kits												
Recurring												
UES I B Kit Recurring	- / -	19 / 3.732	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 3.732
UES II B Kit Recurring	- / -	32 / 8.377	50 / 13.299	14 / 3.813	- / -	14 / 3.813	87 / 24.074	15 / 4.295	106 / 30.461	104 / 30.474	Continuing	Continuing
Subtotal: Recurring	*- / -*	*51 / 12.109*	*50 / 13.299*	*14 / 3.813*	*- / -*	*14 / 3.813*	*87 / 24.074*	*15 / 4.295*	*106 / 30.461*	*104 / 30.474*	*Continuing*	*Continuing*

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH-60, UH-72	**Modification Type:** Operational	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Non-Recurring												
UES I B Kit Non-Recurring	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000
Subtotal: Non-Recurring	*- / 1.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 1.000*
Subtotal: Upturned Exhaust System I and II (UES I/II)	*- / 1.000*	*51 / 12.109*	*50 / 13.299*	*14 / 3.813*	*- / -*	*14 / 3.813*	*87 / 24.074*	*15 / 4.295*	*106 / 30.461*	*104 / 30.474*	*Continuing*	*Continuing*
Modification Item 12 of 14: Load Stability System (LSS)												
A Kits												
Non-Recurring												
Load Stability System	- / -	- / 5.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.500
Subtotal: Non-Recurring	*- / -*	*- / 5.500*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 5.500*
Subtotal: Load Stability System (LSS)	*- / -*	*- / 5.500*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 5.500*
Modification Item 13 of 14: Generators (Realignment, A-Kits)												
A Kits												
Recurring												
60kVA Generator A-Kits	- / -	770 / 6.934	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	770 / 6.934
Subtotal: Recurring	*- / -*	*770 / 6.934*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*770 / 6.934*
Subtotal: Generators (Realignment, A-Kits)	*- / -*	*770 / 6.934*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*770 / 6.934*
Modification Item 14 of 14: FY22 Plus Up (Generator A&B Kits Shipsets)												
A Kits												
Recurring												
A Kits	- / -	- / -	70 / 0.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 0.616
Subtotal: Recurring	*- / -*	*- / -*	*70 / 0.616*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*70 / 0.616*
B Kits												
Recurring												
B Kits	- / -	- / -	70 / 8.884	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 8.884
Subtotal: Recurring	*- / -*	*- / -*	*70 / 8.884*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*70 / 8.884*
Subtotal: FY22 Plus Up (Generator A&B Kits Shipsets)	*- / -*	*- / -*	*140 / 9.500*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*140 / 9.500*
Subtotal: Procurement, All Modification Items	*2,654 / 1,667.234*	*972 / 45.128*	*206 / 23.990*	*1,090 / 14.103*	*- / -*	*1,090 / 14.103*	*87 / 24.074*	*15 / 4.295*	*106 / 30.461*	*104 / 30.474*	*Continuing*	*Continuing*
Installation												

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH-60, UH-72	**Modification Type:** Operational	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Modification Item 4 of 14: Crashworthy External Fuel System (CEFS)	431 / 6.279	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	431 / 6.279
Modification Item 5 of 14: Engine Inlet Barrier Filter (EIBF)	30 / 3.513	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 3.513
Modification Item 9 of 14: Electronic Standby Instrument System (ESIS)	246 / 19.479	6 / 0.550	- / -	62 / 5.281	- / -	62 / 5.281	- / -	- / -	- / -	- / -	Continuing	Continuing
Modification Item 10 of 14: Generators 60 kVA	- / -	38 / 0.142	8 / 0.067	216 / 1.399	- / -	216 / 1.399	163 / 1.074	28 / 0.191	232 / 1.592	208 / 1.458	- / -	893 / 5.923
Modification Item 11 of 14: Upturned Exhaust System I and II (UES I/II)	- / -	20 / 0.522	50 / 1.269	17 / 0.563	- / -	17 / 0.563	87 / 3.569	15 / 0.628	106 / 4.525	104 / 4.512	Continuing	Continuing
Subtotal: Installation	*707 / 29.271*	*64 / 1.214*	*58 / 1.336*	*295 / 7.243*	*- / -*	*295 / 7.243*	*250 / 4.643*	*43 / 0.819*	*338 / 6.117*	*312 / 5.970*	*Continuing*	*Continuing*
Total												
Total Cost (Procurement + Support + Installation)	**1,696.505**	**46.342**	**25.326**	**21.346**	**-**	**21.346**	**28.717**	**5.114**	**36.578**	**36.444**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 14: UH-60A to UH-60L Conversion

Manufacturer Information

Manufacturer Name: Corpus Christi Army Depot	Manufacturer Location: Corpus Christi, TX
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Depot	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 2 of 14: External High Speed Hoist

Manufacturer Information

Manufacturer Name: Breeze Eastern, Inc	Manufacturer Location: Whippany, NJ
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Organic	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 3 of 14: Backup Altitude Indicators

Manufacturer Information

Manufacturer Name: PIF	Manufacturer Location: Redstone Arsenal, AL
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Organic	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 4 of 14: Crashworthy External Fuel System (CEFS)

Manufacturer Information

Manufacturer Name: Robertson Fuel Systems, LLC	Manufacturer Location: Tempe, AZ
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Organic

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	431 / 6.279	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	431 / 6.279
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	431 / 6.279	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	431 / 6.279

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	431	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	431
Out	431	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	431

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 5 of 14: Engine Inlet Barrier Filter (EIBF)

Manufacturer Information

Manufacturer Name: Donaldson Aerospace & Defense	Manufacturer Location: Chesterfield, MO
Administrative Leadtime *(in Months)*: 1	Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: Various

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	30 / 3.513	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 3.513
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	30 / 3.513	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 3.513

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 6 of 14: Enhanced Ballistic Armor Protection System (EBAPS)

Manufacturer Information

Manufacturer Name: The Protective Group, Inc.	Manufacturer Location: Miami Lakes, FL
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Organic	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 7 of 14: UH-72 Sustainability Improvements

Manufacturer Information

Manufacturer Name: Undetermined	Manufacturer Location: Undetermined
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Various	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS

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

Modification Item 8 of 14: UH-60M Weight Reduction - Tail Rotor System Design

Manufacturer Information

Manufacturer Name: United Technologies Corp. | Manufacturer Location: Brea, CA

Administrative Leadtime *(in Months)*: | Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Various | **Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 9 of 14: Electronic Standby Instrument System (ESIS)

Manufacturer Information

Manufacturer Name: L3 Harris	Manufacturer Location: Grand Rapids, MI
Administrative Leadtime *(in Months)*: 6	Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: Various

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	80 / 6.292	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2021	82 / 6.443	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2022	84 / 6.744	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2023	- / -	6 / 0.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	62 / 5.281	- / -	62 / 5.281	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	246 / 19.479	6 / 0.550	- / -	62 / 5.281	- / -	62 / 5.281	- / -	- / -	- / -	- / -	Continuing	Continuing

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 10 of 14: Generators 60 kVA

Manufacturer Information

Manufacturer Name: Honeywell Aerospace	Manufacturer Location: Tucson, AZ
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Various

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	38 / 0.142	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.142
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	8 / 0.067	216 / 1.399	- / -	216 / 1.399	- / -	- / -	- / -	- / -	- / -	224 / 1.466
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	163 / 1.074	- / -	- / -	- / -	- / -	163 / 1.074
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.191	- / -	- / -	- / -	28 / 0.191
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	232 / 1.592	- / -	- / -	232 / 1.592
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	208 / 1.458	- / -	208 / 1.458
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	38 / 0.142	8 / 0.067	216 / 1.399	- / -	216 / 1.399	163 / 1.074	28 / 0.191	232 / 1.592	208 / 1.458	- / -	893 / 5.923

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 11 of 14: Upturned Exhaust System I and II (UES I/II)

Manufacturer Information

Manufacturer Name: Sikorsky	Manufacturer Location: Stratford, CT
Administrative Leadtime *(in Months)*: 6	Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: Various

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	20 / 0.522	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2023	- / -	- / -	- / -	17 / 0.563	- / -	17 / 0.563	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2024	- / -	- / -	50 / 1.269	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	87 / 3.569	- / -	- / -	- / -	Continuing	Continuing
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.628	- / -	- / -	Continuing	Continuing
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 4.525	- / -	Continuing	Continuing
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	104 / 4.512	Continuing	Continuing
Total	- / -	20 / 0.522	50 / 1.269	17 / 0.563	- / -	17 / 0.563	87 / 3.569	15 / 0.628	106 / 4.525	104 / 4.512	Continuing	Continuing

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 12 of 14: Load Stability System (LSS)

Manufacturer Information

Manufacturer Name: VITA INCLINATA TECHNOLOGIES	Manufacturer Location: Colorado
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Various	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 13 of 14: Generators (Realignment, A-Kits)

Manufacturer Information

Manufacturer Name: Honeywell Aerospace	Manufacturer Location: Tucson, AZ
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Various	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 6949AA0480 / Utility Helicopter Mods	**Modification Number / Title:** AA0492 / UTILITY HELICOPTER MODS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 14 of 14: FY22 Plus Up (Generator A&B Kits Shipsets)

Manufacturer Information

Manufacturer Name: Honeywell Aerospace	Manufacturer Location: Tucson, AZ
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Various	**Installation Quantity:** 0

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan

ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0604201A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	950.337	77.432	29.206	44.526	-	44.526	44.379	36.288	41.837	41.684	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	950.337	77.432	29.206	44.526	-	44.526	44.379	36.288	41.837	41.684	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**950.337**	**77.432**	**29.206**	**44.526**	**-**	**44.526**	**44.379**	**36.288**	**41.837**	**41.684**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Aviation Mission Planning System (AMPS) supports pre-mission planning and rehearsal, including route planning, communications planning, and aircraft configuration. It receives data from multiple sources and provides that data digitally to aircraft platforms to support aviation missions. That data is loaded onto the aircraft platforms utilizing a Data Transfer Device initializing the communication, navigation, and weapons systems on the aircraft.

AMPS Common Operating Environment (COE) Convergence to Integrated Mission Planning and Airspace Control Tools (IMPACT) will provide interoperability with Army Mission Command, Joint, and Unified Action Partners (UAP) systems and facilitate Aviation Mission Planning (MP) incremental capabilities for Joint All Domain Command and Control (JADC2). IMPACT will be instantiated across Command Post Computing Environment (CE), Mounted CE, and Mobile/Handheld CE and will extend Aviation MP services to the tactical edge.

IMPACT will enhance situational understanding, risk assessment, and Air-Ground Integration to enable Multi-Domain Operations (MDO), Joint All Domain Operations (JADO), and JADC2. The AMPS/IMPACT program includes management and support of the Centralized Aviation Flight Records System (CAFRS). The AMPS program also manages and supports FliteScene Software licenses, maintenance agreements, and related engineering services. FliteScene is a digital map technology application that provides enhanced navigation capabilities to the military flight crew and enhances mission effectiveness.

The Improved Data Modem (IDM) is the common solution for digitizing Army Aviation and is fielded on every modernized, rotary-wing Army aircraft, including the CH-47 Chinook, AH-64 Apache and UH-60 Black Hawk. The IDM provides the Army rotary wing fleet with critical communication capabilities, enables connectivity to multiple radios used by rotary-wing aircraft and the Blue Force Tracking transceiver, and provides the means for rapid data transfer and messaging.

The Aviation Mission Common Server (AMCS) family of systems (FoS) effort initially serves as an obsolescence replacement with an open systems architecture and processing capacity to support future capability upgrades for the current Army IDM 401 capability set and provides an architecture that supports enabling, hosting and integrating future hardware and software capabilities in an Integrated Modular Avionics solution for the next generation of IDM functionality and expanded mission processing. The AMCS, an Aviation Mission Computing Environment (AMCE) Modular Open Systems Approach (MOSA) aligned Solution, will provide Army aviation a hardware and software Open System Architecture nested on a digital backbone developed and implemented utilizing the aviation enterprise-based MOSA principles and aligns with the FVL/Enterprise Architecture Framework (FAF/EAF). The AMCS program will implement Mission Command Information System (MCIS) and additional Common Operating Environment capabilities utilizing a flexible open systems architecture and distributed processing resources with the capacity and architecture to perform an array of additional non-flight critical computing, data processing, radio and communications management, and graphics generation functions for the enduring and future Army Aviation fleet with the ability to pursue the separation of non-flight critical and flight critical mission system technology integration from flight critical components. The AMCS provides the ability to rapidly integrate technology upgrades required to keep pace with evolving threats on Multi-Domain Battlefield.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604201A

Line Item MDAP/MAIS Code: N/A

The AMCS enables the hosting of enhanced capabilities to communicate, navigate, sense, deploy weapon systems and interoperate across the Joint Force, and will be the center of the future Common Digital Backbone for the enduring and future Army Aviation fleets. AMCS is a key enabler for Multi-Domain Operations and Army 2030. The IDM 401 FY23 funding of $8.151M has been reallocated to AMCS for the procurement of additional AMCS quantities and integration efforts. However, if the AMCS schedule does not support the full transition to AMCS production in FY23, we will shift resources back to the IDM Production line.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	51.683	21.466	31.535	-	31.535	32.033	24.687	29.938	29.850
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	23.297	7.003	11.754	-	11.754	11.170	10.496	10.765	10.707
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.452	0.737	1.237	-	1.237	1.176	1.105	1.134	1.127
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**77.432**	**29.206**	**44.526**	**-**	**44.526**	**44.379**	**36.288**	**41.837**	**41.684**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604201A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)
P-3a	AA0712 / Network And Mission Plan (Rationalization, Standardization, Interoperability, Compatibility, Simplification)				- / 950.337	- / 77.432	- / 29.206	- / 44.526	- / -	- / 44.526
P-40	**Total Gross/Weapon System Cost**				**- / 950.337**	**- / 77.432**	**- / 29.206**	**- / 44.526**	**- / -**	**- / 44.526**

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)
P-3a	AA0712 / Network And Mission Plan (Rationalization, Standardization, Interoperability, Compatibility, Simplification)				- / 44.379	- / 36.288	- / 41.837	- / 41.684	Continuing	Continuing
P-40	**Total Gross/Weapon System Cost**				**- / 44.379**	**- / 36.288**	**- / 41.837**	**- / 41.684**	**Continuing**	**Continuing**

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

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

Justification:

FY 2023 Base procurement dollars in the amount of $ 13.594 million funds AMPS/IMPACT software production and deployment to meet COE Operational Needs in capability drops to support Army Aviation's enduring and future Vertical Lift (FVL) fleets. This is critical to enable Air-Ground Integration, enhance interoperability, and increase commonality with Army Mission Command, COE convergence, MDO, JADO, and JADC2. Aviation is a critical enabler for MDO & JADO; greater synchronization of Aviation planning by IMPACT will enable commanders to place the decisive force at the critical point on the battlefield to facilitate success of JADC2. AMPS COE Convergence to IMPACT is software-centric and hardware agnostic, thus eliminating the need for future hardware procurements.

FY 2021 Base procurement dollars for IDM experienced no funding or quantity changes. Total FY 2021 IDM-401 B-Kits procured was 257units. Total FY 2022 IDM-401 B-Kits to be procured is 65. Procurement dollars supports the procurement of IDM-401 B-Kits to provide necessary Government Furnished Equipment to rotary-wing fleet platform production lines, and to provide a technology refresh to the IDM hardware and its own production line. The funding will maintain compliance with cybersecurity requirements and current functionality of the IDM to support Army Networking initiatives for integrating new radios and mission command modernization. Uninterrupted delivery of IDM-401 units is essential to support Army Aircraft production lines and modification work order installations. The IDM 401 materials, to include long lead items, are procured through the Defense Logistics Agency and the assembly/production of the IDM-401 hardware takes place at the Letterkenny Army Depot and the IDM software is installed by the U.S. Army Combat Capabilities Development Command Aviation & Missile Center, Systems Simulation, Software and Installation Directorate.

FY 2021 Base procurement dollars for AMCS experienced no funding or quantity changes. FY 2023 Base procurement dollars in the amount of $30.392 million will support AMCS production activities as the obsolescence replacement for the IDM 401 , software integration to include porting, procurement of initial AMCS units and address modifications to the IDM software application (ISA), Mission Command Information System (MCIS) data manager and distribution software application, in support of Army Networking initiatives for integrating new radios and mission command modernization. Funding also support IDM and AMCS compliance with cybersecurity requirements and current functionality to support Army Networking initiatives for integrating new radios and mission command modernization. Supports delivery of AMCS units as a replacement for the IDM-401 is essential to support Army Aircraft combined common avionics modification work order installations.

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan	**Modification Number / Title:** AA0712 / Network And Mission Plan
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	950.337	77.432	29.206	44.526	-	44.526	44.379	36.288	41.837	41.684	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	950.337	77.432	29.206	44.526	-	44.526	44.379	36.288	41.837	41.684	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**950.337**	**77.432**	**29.206**	**44.526**	**-**	**44.526**	**44.379**	**36.288**	**41.837**	**41.684**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Aviation Mission Planning System (AMPS) supports pre-mission planning and rehearsal, including route planning, communications planning, and aircraft configuration. It receives data from multiple sources and provides that data digitally to aircraft platforms to support aviation missions. That data is loaded onto the aircraft platforms utilizing a Data Transfer Device initializing the communication, navigation, and weapons systems on the aircraft.

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IMPACT will enhance situational understanding, risk assessment, and Air-Ground Integration to enable Multi-Domain Operations (MDO), Joint All Domain Operations (JADO), and JADC2. The AMPS/IMPACT program includes management and support of the Centralized Aviation Flight Records System (CAFRS). The AMPS program also manages and supports FliteScene Software licenses, maintenance agreements, and related engineering services. FliteScene is a digital map technology application that provides enhanced navigation capabilities to the military flight crew and enhances mission effectiveness.

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Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan	**Modification Number / Title:** AA0712 / Network And Mission Plan
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

procurement of additional AMCS quantities and integration efforts. However, if the AMCS schedule does not support the full transition to AMCS production in FY23, we will shift resources back to the IDM Production line.

FY 2021 Base procurement dollars for IDM experienced no funding or quantity changes. Total FY 2021 IDM-401 B-Kits procured was 257units. Procurement dollars supports the procurement of IDM-401 B-Kits to provide necessary Government Furnished Equipment to rotary-wing fleet platform production lines, and to provide a technology refresh to the IDM hardware and its own production line. The funding will maintain compliance with cybersecurity requirements and current functionality of the IDM to support Army Networking initiatives for integrating new radios and mission command modernization. Uninterrupted delivery of IDM-401 units is essential to support Army Aircraft production lines and modification work order installations. The IDM 401 materials, to include long lead items, are procured through the Defense Logistics Agency and the assembly/production of the IDM-401 hardware takes place at the Letterkenny Army Depot and the IDM software is installed by the U.S. Army Combat Capabilities Development Command Aviation & Missile Center, Systems Simulation, Software and Installation Directorate.

FY 2021 Base procurement dollars for AMCS experienced no funding or quantity changes. FY 2023 Base procurement dollars in the amount of $30.392 million will support AMCS production activities as the obsolescence replacement for the IDM 401 , software integration to include porting, procurement of initial AMCS units and address modifications to the IDM software application (ISA), Mission Command Information System (MCIS) data manager and distribution software application, in support of Army Networking initiatives for integrating new radios and mission command modernization. Funding also support IDM and AMCS compliance with cybersecurity requirements and current functionality to support Army Networking initiatives for integrating new radios and mission command modernization. Supports delivery of AMCS units as a replacement for the IDM-401 is essential to support Army Aircraft combined common avionics modification work order installations.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	51.683	21.466	31.535	-	31.535	32.033	24.687	29.938	29.850
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	23.297	7.003	11.754	-	11.754	11.170	10.496	10.765	10.707
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.452	0.737	1.237	-	1.237	1.176	1.105	1.134	1.127
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**77.432**	**29.206**	**44.526**	**-**	**44.526**	**44.379**	**36.288**	**41.837**	**41.684**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan	**Modification Number / Title:** AA0712 / Network And Mission Plan
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: AH-64D/E, CH-47D/F, UH-60A/L/M/Q/V, HH-60L/M, EMARSS, UH-72, UAS	**Modification Type:** Rationalization, Standardization, Interoperability, Compatibility, Simplification	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Procurement												
Modification Item 1 of 5: Aviation Mission Planning System (AMPS)												
B Kits												
Recurring												
Kit Quantity- (Computer)	7,780 / 33.247	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7,780 / 33.247
ECPs	- / 166.040	- / 6.869	- / 2.910	- / 5.111	- / -	- / 5.111	- / 6.157	- / 2.684	- / 4.278	- / 4.278	Continuing	Continuing
Systems Engineering	- / 20.177	- / 2.191	- / 2.080	- / 2.324	- / -	- / 2.324	- / 2.381	- / 1.635	- / 2.500	- / 2.500	Continuing	Continuing
System Test and Eval	- / 12.601	- / 1.189	- / 1.282	- / 1.258	- / -	- / 1.258	- / 1.437	- / 0.871	- / 1.485	- / 1.485	Continuing	Continuing
Fielding/Training	- / 63.615	- / 4.775	- / 3.535	- / 3.824	- / -	- / 3.824	- / 3.908	- / 2.356	- / 4.101	- / 4.101	Continuing	Continuing
Systems Engineering / Program Management	- / 19.010	- / 1.100	- / 0.970	- / 1.077	- / -	- / 1.077	- / 1.100	- / 1.121	- / 1.143	- / 1.143	Continuing	Continuing
Subtotal: Recurring	*7,780 / 314.690*	*- / 16.124*	*- / 10.777*	*- / 13.594*	*- / -*	*- / 13.594*	*- / 14.983*	*- / 8.667*	*- / 13.507*	*- / 13.507*	*Continuing*	*Continuing*
Subtotal: Aviation Mission Planning System (AMPS)	*7,780 / 314.690*	*- / 16.124*	*- / 10.777*	*- / 13.594*	*- / -*	*- / 13.594*	*- / 14.983*	*- / 8.667*	*- / 13.507*	*- / 13.507*	*Continuing*	*Continuing*
Modification Item 2 of 5: Improved Data Modem (IDM)												
B Kits												
Recurring												
Kit Quantity- IDM OSA	5,414 / 132.989	257 / 16.538	65 / 6.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5,736 / 156.401
Aircraft Integration	- / 168.140	- / 1.810	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 169.950
ECP (SW)	- / 105.393	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 105.393
Systems Engineering	- / 20.947	- / 2.791	- / 2.011	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.749
System Test & Eval	- / 73.446	- / 1.040	- / 1.061	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 75.547
Other- PM Admin	- / 28.527	- / 2.317	- / 1.644	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 32.488
Subtotal: Recurring	*5,414 / 529.442*	*257 / 24.496*	*65 / 11.590*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*5,736 / 565.528*
Non-Recurring												
Fielding and Training	- / 1.144	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.144
Kit Quanity - IDM	- / 9.776	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.776
Subtotal: Non-Recurring	*- / 10.920*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 10.920*
Subtotal: Improved Data Modem (IDM)	*5,414 / 540.362*	*257 / 24.496*	*65 / 11.590*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*5,736 / 576.448*
Modification Item 3 of 5: Aviation Data Exploitation Capability (ADEC)												
B Kits												
Recurring												

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan	**Modification Number / Title:** AA0712 / Network And Mission Plan
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: AH-64D/E, CH-47D/F, UH-60A/L/M/Q/V, HH-60L/M, EMARSS, UH-72, UAS	**Modification Type:** Rationalization, Standardization, Interoperability, Compatibility, Simplification	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Kit Quantity- Workstation	452 / 1.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	452 / 1.035
Kit Quantity- Server	50 / 0.763	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 0.763
ECP (SW)	- / 1.186	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.186
Data	- / 0.843	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.843
Systems Engineering	- / 4.362	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.362
System Test & Eval	- / 0.304	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.304
Fielding/Training	- / 4.972	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.972
Other- PM Admin	- / 7.170	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.170
Subtotal: Recurring	*502 / 20.635*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*502 / 20.635*
Subtotal: Aviation Data Exploitation Capability (ADEC)	*502 / 20.635*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*502 / 20.635*
Modification Item 4 of 5: Aircraft Notebook (ACN)												
B Kits												
Recurring												
ECP (SW)	- / 12.234	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.234
Data	- / 0.781	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.781
Systems Engineering	- / 11.582	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.582
System Test	- / 1.849	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.849
Fielding/Training	- / 43.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 43.430
Other- PM Admin	- / 4.774	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.774
Subtotal: Recurring	*- / 74.650*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 74.650*
Subtotal: Aircraft Notebook (ACN)	*- / 74.650*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 74.650*
Modification Item 5 of 5: Aviation Mission Common Server (AMCS)												
B Kits												
Recurring												
Kit Quantity - AMCS	- / -	- / -	10 / 1.301	35 / 3.902	- / -	35 / 3.902	90 / 9.692	90 / 9.829	90 / 9.974	90 / 10.350	Continuing	Continuing
System Engineering	- / -	- / 1.460	- / 1.390	- / 2.364	- / -	- / 2.364	- / 1.913	- / 1.817	- / 1.828	- / 1.846	Continuing	Continuing
System Test and Evaluation	- / -	- / 9.142	- / -	- / 5.790	- / -	- / 5.790	- / 8.760	- / 4.978	- / 6.067	- / 6.128	Continuing	Continuing
Other - PM Admin	- / -	- / 2.499	- / 2.548	- / 3.012	- / -	- / 3.012	- / 2.596	- / 2.573	- / 2.555	- / 2.855	Continuing	Continuing
Fielding/Training	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.779	- / 0.755	- / 0.758	- / 0.766	Continuing	Continuing
Subtotal: Recurring	*- / -*	*- / 13.101*	*10 / 5.239*	*35 / 15.068*	*- / -*	*35 / 15.068*	*90 / 23.740*	*90 / 19.952*	*90 / 21.182*	*90 / 21.945*	*Continuing*	*Continuing*
Non-Recurring												

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan	**Modification Number / Title:** AA0712 / Network And Mission Plan
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: AH-64D/E, CH-47D/F, UH-60A/L/M/Q/V, HH-60L/M, EMARSS, UH-72, UAS	**Modification Type:** Rationalization, Standardization, Interoperability, Compatibility, Simplification	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
AMCS Aircraft Integration	- / -	- / 13.697	- / -	- / -	- / -	- / -	- / 2.992	- / 3.260	- / 3.450	- / 3.495	Continuing	Continuing
AMCS SW App ECP	- / -	- / 10.014	- / 1.600	- / 15.864	- / -	- / 15.864	- / 2.664	- / 4.409	- / 3.698	- / 2.737	Continuing	Continuing
Subtotal: Non-Recurring	*- / -*	*- / 23.711*	*- / 1.600*	*- / 15.864*	*- / -*	*- / 15.864*	*- / 5.656*	*- / 7.669*	*- / 7.148*	*- / 6.232*	*Continuing*	*Continuing*
Subtotal: Aviation Mission Common Server (AMCS)	*- / -*	*- / 36.812*	*10 / 6.839*	*35 / 30.932*	*- / -*	*35 / 30.932*	*90 / 29.396*	*90 / 27.621*	*90 / 28.330*	*90 / 28.177*	*Continuing*	*Continuing*
Subtotal: Procurement, All Modification Items	*13,696 / 950.337*	*257 / 77.432*	*75 / 29.206*	*35 / 44.526*	*- / -*	*35 / 44.526*	*90 / 44.379*	*90 / 36.288*	*90 / 41.837*	*90 / 41.684*	*Continuing*	*Continuing*
Installation												
Modification Item 3 of 5: Aviation Data Exploitation Capability (ADEC)	1 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -
Modification Item 4 of 5: Aircraft Notebook (ACN)	1 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -
Subtotal: Installation	*2 / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*2 / -*
Total												
Total Cost (Procurement + Support + Installation)	**950.337**	**77.432**	**29.206**	**44.526**	**-**	**44.526**	**44.379**	**36.288**	**41.837**	**41.684**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan	**Modification Number / Title:** AA0712 / Network And Mission Plan
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 5: Aviation Mission Planning System (AMPS)

Manufacturer Information

Manufacturer Name: Getac	Manufacturer Location: Irvine, CA
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Not applicable	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan	**Modification Number / Title:** AA0712 / Network And Mission Plan
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 2 of 5: Improved Data Modem (IDM)

Manufacturer Information

Manufacturer Name: AMRDEC Software Engineering Directorate	Manufacturer Location: Redstone Arsenal, AL
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Not Applicable	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan	**Modification Number / Title:** AA0712 / Network And Mission Plan
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 3 of 5: Aviation Data Exploitation Capability (ADEC)

Manufacturer Information

Manufacturer Name: AMRDEC Software Engineering Directorate	Manufacturer Location: Redstone Arsenal, AL
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Not Applicable

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan	**Modification Number / Title:** AA0712 / Network And Mission Plan
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 4 of 5: Aircraft Notebook (ACN)

Manufacturer Information

Manufacturer Name: AMRDEC Software Engineering Directorate	Manufacturer Location: Redstone Arsenal, AL
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Not Applicable

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8658AA0712 / Network And Mission Plan	**Modification Number / Title:** AA0712 / Network And Mission Plan
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 5 of 5: Aviation Mission Common Server (AMCS)

Manufacturer Information

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

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

Installation Information

Method of Implementation (Organic): ECP	**Installation Quantity:** 0

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance

ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0604201A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,041.462	101.355	58.117	72.387	-	72.387	85.081	63.984	38.380	38.233	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,041.462	101.355	58.117	72.387	-	72.387	85.081	63.984	38.380	38.233	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,041.462**	**101.355**	**58.117**	**72.387**	**-**	**72.387**	**85.081**	**63.984**	**38.380**	**38.233**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Funding for the Army Navigation Systems programs was realigned to the new Budget Line Item 8662A01006, Aviation Assured-Position, Navigation, and Timing (A-PNT) in FY2021.

The current Army Aviation Navigation Systems provide aircraft with extremely accurate and secure navigation and timing, assists in situational awareness, and aids in prevention of fratricide. The Global Positioning System (GPS) includes the Doppler GPS Navigation Set (DGNS), which is used for the Non-bussed Utility and Cargo helicopters, and the Embedded GPS Inertial Navigation System (EGI), which is integrated into the modernized Cargo, Utility, Attack, and Special Operations fleets of helicopters. The upgraded DGNS Computer Display Unit and GPS Anti-jam Antenna is being installed on the Blackhawk UH-60A/L and HH-60A/L fleets and will reduce pilot workload and fatigue and provide GPS Anti-Jam capabilities which significantly improve levels of A-PNT. The Pre-Planned Product Improvement (P3I) EGI A Kits and B Kits are being installed on UH/HH-60M, CH-47F, AH-64E, and Special Operations Aircraft (SOA) fleets and bring a number of enhancements required for operations in civil airspace as well as improved levels of Assured - Position, Navigation and Timing.

The Aviation Tactical Communication Systems (ATCS) programs are Army Aviation programs to procure, integrate, and field A-Kits (the installation hardware and software), and B-Kits (the radio) to meet Army Aviation Communications requirements. The current ATCS program is the Multi-mode Aviation Radio Set (MARS), which uses an ARC-231A radio with greater capability that uses modernized waveforms and cryptography.

The Blue Force Tracking - Aviation (BFT-A) Program integrates, qualifies, and manages the installation of BFT-2 system installation kits (A Kit) for Army Rotary Wing Aircraft. The A-Kit utilizes the BFT-2 transceiver and KGV-72 encryption device provided by PM Mission Command (MC). BFT-2 provides the commander a near real-time Beyond-Line-of-Sight Blue/Red Situational Awareness Picture & Command and Control messaging capability.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	50.678	31.964	39.812	-	39.812	46.795	35.191	21.109	21.028
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	45.609	23.247	28.955	-	28.955	34.032	25.594	15.352	15.293

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604201A

Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.068	2.906	3.620	-	3.620	4.254	3.199	1.919	1.912
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**101.355**	**58.117**	**72.387**	**-**	**72.387**	**85.081**	**63.984**	**38.380**	**38.233**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604201A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-3a	AA0723 / Comms, Nav Surveillance (New or Improved Operational Capability)				- / 1,041.462	- / 101.355	- / 58.117	- / 72.387	- / -	- / 72.387
P-40	**Total Gross/Weapon System Cost**				**- / 1,041.462**	**- / 101.355**	**- / 58.117**	**- / 72.387**	**- / -**	**- / 72.387**

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-3a	AA0723 / Comms, Nav Surveillance (New or Improved Operational Capability)				- / 85.081	- / 63.984	- / 38.380	- / 38.233	Continuing	Continuing
P-40	**Total Gross/Weapon System Cost**				**- / 85.081**	**- / 63.984**	**- / 38.380**	**- / 38.233**	**Continuing**	**Continuing**

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

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

Justification:

FY 2023 Base Procurement dollars in the amount of $67.228 million supports procurement of ARC-231A radios to support aircraft production line and aircraft modification requirements, fielding of the ARC-231A radios to one CAB, system test and evaluation of ARC-231A radios and MARS B Kits, and aircraft integration to support crypto-modernization.

FY 2023 Base Procurement dollars in the amount of $5.159 million provides for the installation of BFT-2 A-Kits.

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.

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,041.462	101.355	58.117	72.387	-	72.387	85.081	63.984	38.380	38.233	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,041.462	101.355	58.117	72.387	-	72.387	85.081	63.984	38.380	38.233	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,041.462**	**101.355**	**58.117**	**72.387**	**-**	**72.387**	**85.081**	**63.984**	**38.380**	**38.233**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Funding for the Army Navigation Systems programs was realigned to the new Budget Line Item 8662A01006, Aviation Assured-Position, Navigation, and Timing (A-PNT) in FY2021.

The current Army Aviation Navigation Systems provide aircraft with extremely accurate and secure navigation and timing, assists in situational awareness, and aids in prevention of fratricide. The Global Positioning System (GPS) includes the Doppler GPS Navigation Set (DGNS), which is used for the Non-bussed Utility and Cargo helicopters, and the Embedded GPS Inertial Navigation System (EGI), which is integrated into the modernized Cargo, Utility, Attack, and Special Operations fleets of helicopters. The upgraded DGNS Computer Display Unit and GPS Anti-jam Antenna is being installed on the Blackhawk UH-60A/L and HH-60A/L fleets and will reduce pilot workload and fatigue and provide GPS Anti-Jam capabilities which significantly improve levels of A-PNT. The Pre-Planned Product Improvement (P3I) EGI A Kits and B Kits are being installed on UH/HH-60M, CH-47F, AH-64E, and Special Operations Aircraft (SOA) fleets and bring a number of enhancements required for operations in civil airspace as well as improved levels of Assured - Position, Navigation and Timing.

The Aviation Tactical Communication Systems (ATCS) programs are Army Aviation programs to procure, integrate, and field A-Kits (the installation hardware and software), and B-Kits (the radio) to meet Army Aviation Communications requirements. The current ATCS program is the Multi-mode Aviation Radio Set (MARS), which uses an ARC-231A radio with greater capability that uses modernized waveforms and cryptography.

The Blue Force Tracking - Aviation (BFT-A) Program integrates, qualifies, and manages the installation of BFT-2 system installation kits (A Kit) for Army Rotary Wing Aircraft. The A-Kit utilizes the BFT-2 transceiver and KGV-72 encryption device provided by PM Mission Command (MC). BFT-2 provides the commander a near real-time Beyond-Line-of-Sight Blue/Red Situational Awareness Picture & Command and Control messaging capability.

This exhibit is for a budget line that procures multiple items and does not have a single Army Acquisition Objective.

-- Justification --
FY 2023 Base Procurement dollars in the amount of $67.228 million supports procurement of ARC-231A radios to support aircraft production line and aircraft modification requirements, fielding of the ARC-231A radios to one CAB, system test and evaluation of ARC-231A radios and MARS B Kits, and aircraft integration to support crypto-modernization.

FY 2023 Base Procurement dollars in the amount of $5.159 million provides for the installation of BFT-2 A-Kits.

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.

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	50.678	31.964	39.812	-	39.812	46.795	35.191	21.109	21.028
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	45.609	23.247	28.955	-	28.955	34.032	25.594	15.352	15.293
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.068	2.906	3.620	-	3.620	4.254	3.199	1.919	1.912
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**101.355**	**58.117**	**72.387**	**-**	**72.387**	**85.081**	**63.984**	**38.380**	**38.233**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH/HH-60A/L, UH/HH/ MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Procurement												
Modification Item 1 of 9: DGNS (AN/ASN-128D) P3I												
A Kits												
Recurring												
Engineering Change Orders	- / 2.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.800
Data	- / 1.712	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.712
Training Equipment	46 / 6.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 6.800
Systems Engineering	- / 8.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.930
Other - PM Admin	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.500
Subtotal: Recurring	*46 / 21.742*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*46 / 21.742*
Subtotal: DGNS (AN/ASN-128D) P3I	*46 / 21.742*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*46 / 21.742*
Modification Item 2 of 9: DGNS (AN/ASN-128D) CDU/ SW Upgrade ECP B-Kit												
B Kits												
Recurring												
Upgraded CDU	450 / 29.759	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	450 / 29.759
Fielding	- / 9.836	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.836
Systems Eng / Program Management	- / 7.967	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.967
Subtotal: Recurring	*450 / 47.562*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*450 / 47.562*
Non-Recurring												
Data / Training	- / 3.349	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.349
Aircraft Integration	- / 12.335	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.335
Systems Test & Evaluation	- / 5.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.078
Subtotal: Non-Recurring	*- / 20.762*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 20.762*
Subtotal: DGNS (AN/ASN-128D) CDU/SW Upgrade ECP B-Kit	*450 / 68.324*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*450 / 68.324*
Modification Item 3 of 9: DGNS (AN/ASN-128D) CDU/ SW Upgrade ECP A-Kit												
A Kits												
Recurring												
GPS Anti Jam Antenna	235 / 7.748	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	235 / 7.748
Systems Engineering / Program Management	- / 2.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.430

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH/HH-60A/L, UH/HH/ MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Systems Test & Evaluation	- / 3.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.930
Subtotal: Recurring	*235 / 14.108*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*235 / 14.108*
Non-Recurring												
Integration & NRE	- / 1.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.002
Subtotal: Non-Recurring	*- / 1.002*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*- / 1.002*
Subtotal: DGNS (AN/ASN-128D) CDU/SW Upgrade ECP A-Kit	*235 / 15.110*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*235 / 15.110*
Modification Item 4 of 9: Embedded GPS Inertial Nav System (EGI) P3I B-Kit												
B Kits												
Recurring												
EGI EAGLE-M Shipsets	131 / 23.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	131 / 23.001
EGI EAGLE SOA Shipsets	51 / 8.493	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 8.493
Fielding	- / 1.365	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.365
Systems Engineering / Program Management	- / 23.011	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.011
Subtotal: Recurring	*182 / 55.870*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*182 / 55.870*
Non-Recurring												
Aircraft Integration	- / 10.211	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.211
Systems Test & Evaluation	- / 7.853	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.853
Training / Data / Support Equipment	- / 3.553	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.553
Subtotal: Non-Recurring	*- / 21.617*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*- / 21.617*
Subtotal: Embedded GPS Inertial Nav System (EGI) P3I B-Kit	*182 / 77.487*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*182 / 77.487*
Modification Item 5 of 9: Embedded GPS Inertial Nav System (EGI) P3I A-Kit												
A Kits												
Recurring												
GPS Anti Jam Antenna	153 / 11.722	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	153 / 11.722
Systems Engineering / Program Management	- / 5.389	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.389
Subtotal: Recurring	*153 / 17.111*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*153 / 17.111*
Non-Recurring												
Aircraft Integration	- / 46.145	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 46.145

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH/HH-60A/L, UH/HH/ MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Systems Test & Evaluation	- / 5.837	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.837
Productionization	- / 2.074	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.074
Subtotal: Non-Recurring	*- / 54.056*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 54.056*
Subtotal: Embedded GPS Inertial Nav System (EGI) P3I A-Kit	*153 / 71.167*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*153 / 71.167*
Modification Item 6 of 9: Aviation Tactical Comm Systems (ATCS) - Alt Comms												
A Kits												
Recurring												
Kit Quantity-A-Kit	415 / 12.956	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	415 / 12.956
Systems Engineering / Program Management	- / 46.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 46.417
System Test & Evaluation	- / 10.107	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.107
Training / Data / Support Equipment	- / 1.366	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.366
Fielding	- / 16.922	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.922
Subtotal: Recurring	*415 / 87.768*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*415 / 87.768*
Non-Recurring												
Aircraft Integration	- / 95.887	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 95.887
Subtotal: Non-Recurring	*- / 95.887*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 95.887*
B Kits												
Recurring												
Kit Quantity-B-Kit (ARC-231) Shipsets	1,230 / 185.502	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,230 / 185.502
Kit Quantity-B-Kit (ARC201D) Shipsets	777 / 46.465	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	777 / 46.465
Subtotal: Recurring	*2,007 / 231.967*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*2,007 / 231.967*
Subtotal: Aviation Tactical Comm Systems (ATCS) - Alt Comms	*2,422 / 415.622*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*2,422 / 415.622*
Modification Item 7 of 9: Aviation Tactical Comm Systems (ATCS) - MARS												
A Kits												
Recurring												
Systems Engineering / Program Management	- / 24.122	- / 12.298	- / 11.000	- / 13.107	- / -	- / 13.107	- / 13.773	- / 13.613	- / 13.515	- / 13.074	Continuing	Continuing
System Test & Evaluation	- / 5.492	- / 1.362	- / 1.575	- / 2.000	- / -	- / 2.000	- / 2.022	- / 1.521	- / -	- / -	Continuing	Continuing
Subtotal: Recurring	*- / 29.614*	*- / 13.660*	*- / 12.575*	*- / 15.107*	*- / -*	*- / 15.107*	*- / 15.795*	*- / 15.134*	*- / 13.515*	*- / 13.074*	*Continuing*	*Continuing*

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Non-Recurring												
SINCGARS NRE	- / 2.327	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.327
Aircraft Integration	- / 19.438	- / -	- / 7.123	- / 9.078	- / -	- / 9.078	- / -	- / -	- / -	- / -	- / -	- / 35.639
Subtotal: Non-Recurring	*- / 21.765*	*- / -*	*- / 7.123*	*- / 9.078*	*- / -*	*- / 9.078*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 37.966*
B Kits												
Recurring												
Kit Shipset B-Kit (ARC-231A) - PIM	26 / 5.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 5.408
Kit Shipset B-Kit (ARC 231) - Rotable	169 / 37.338	121 / 10.938	138 / 7.489	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	428 / 55.765
Kit Shipset B-Kit (ARC-231A) - GFE	- / -	- / -	- / -	117 / 18.277	- / -	117 / 18.277	131 / 23.357	109 / 12.787	85 / 5.302	43 / 6.076	591 / 64.484	1,076 / 130.283
Kit Shipset B-Kit (ARC-231A) - MWO	160 / 18.651	248 / 46.730	98 / 7.582	184 / 19.454	- / -	184 / 19.454	319 / 37.550	341 / 31.771	166 / 16.715	120 / 16.957	1,362 / 148.607	2,998 / 344.017
Fielding	- / 0.509	- / 3.776	- / 3.871	- / 3.238	- / -	- / 3.238	- / 4.768	- / 2.730	- / 1.358	- / 1.401	- / -	- / 21.651
Training/Data	- / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.900
Subtotal: Recurring	*355 / 62.806*	*369 / 61.444*	*236 / 18.942*	*301 / 40.969*	*- / -*	*301 / 40.969*	*450 / 65.675*	*450 / 47.288*	*251 / 23.375*	*163 / 24.434*	*1,953 / 213.091*	*4,528 / 558.024*
Non-Recurring												
ECP - Non-Recurring	- / 54.275	- / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 57.275
Subtotal: Non-Recurring	*- / 54.275*	*- / 3.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 57.275*
Subtotal: Aviation Tactical Comm Systems (ATCS) - MARS	*355 / 168.460*	*369 / 78.104*	*236 / 38.640*	*301 / 65.154*	*- / -*	*301 / 65.154*	*450 / 81.470*	*450 / 62.422*	*251 / 36.890*	*163 / 37.508*	*Continuing*	*Continuing*
Modification Item 8 of 9: Airborne Maritime Fixed (AMF-A) Radio Integration												
A Kits												
Recurring												
Kit Quantity - A-Kit - Production Line	148 / 13.466	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 13.466
Support Equipment	- / 2.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.030
System Test and Evaluation	- / 1.910	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.910
System Eng/Prog Mgmt (SEPM)	- / 12.074	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.074
Subtotal: Recurring	*148 / 29.480*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*148 / 29.480*
Non-Recurring												
NRE Aircraft Integration	- / 18.594	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.594
Subtotal: Non-Recurring	*- / 18.594*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 18.594*
Subtotal: Airborne Maritime Fixed (AMF-A) Radio Integration	*148 / 48.074*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*148 / 48.074*

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH/HH-60A/L, UH/HH/ MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Modification Item 9 of 9: Blue Force Tracking-Aviation (BFT-A)												
A Kits												
Recurring												
BFT-A A-Kits (MWO)	2,209 / 26.799	242 / 2.292	8 / 0.062	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,459 / 29.153
BFT-A A Kit Spares	25 / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.270
Test / Engineering	- / 4.138	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.138
Fielding / Training	- / 3.769	- / 0.005	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.779
Systems Engineering / Program Management	- / 33.022	- / 6.941	- / 7.385	- / 3.625	- / -	- / 3.625	- / 1.970	- / -	- / -	- / -	- / -	- / 52.943
Misc HW Procurement	- / 3.655	- / 0.201	- / 0.068	- / 0.071	- / -	- / 0.071	- / -	- / -	- / -	- / -	- / -	- / 3.995
Subtotal: Recurring	*2,234 / 71.653*	*242 / 9.439*	*8 / 7.520*	*- / 3.696*	*- / -*	*- / 3.696*	*- / 1.970*	*- / -*	*- / -*	*- / -*	*- / -*	*2,484 / 94.278*
Non-Recurring												
NRE-Test / Engineering	- / 4.747	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.747
Subtotal: Non-Recurring	*- / 4.747*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 4.747*
Subtotal: Blue Force Tracking-Aviation (BFT-A)	*2,234 / 76.400*	*242 / 9.439*	*8 / 7.520*	*- / 3.696*	*- / -*	*- / 3.696*	*- / 1.970*	*- / -*	*- / -*	*- / -*	*- / -*	*2,484 / 99.025*
Subtotal: Procurement, All Modification Items	*6,225 / 962.386*	*611 / 87.543*	*244 / 46.160*	*301 / 68.850*	*- / -*	*301 / 68.850*	*450 / 83.440*	*450 / 62.422*	*251 / 36.890*	*163 / 37.508*	*Continuing*	*Continuing*
Installation												
Modification Item 1 of 9: DGNS (AN/ASN-128D) P3I	46 / 0.296	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 0.296
Modification Item 2 of 9: DGNS (AN/ASN-128D) CDU/ SW Upgrade ECP B-Kit	450 / 4.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	450 / 4.070
Modification Item 3 of 9: DGNS (AN/ASN-128D) CDU/ SW Upgrade ECP A-Kit	235 / 1.260	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	235 / 1.260
Modification Item 4 of 9: Embedded GPS Inertial Nav System (EGI) P3I B-Kit	51 / 0.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 0.447
Modification Item 5 of 9: Embedded GPS Inertial Nav System (EGI) P3I A-Kit	153 / 0.551	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	153 / 0.551
Modification Item 6 of 9: Aviation Tactical Comm Systems (ATCS) - Alt Comms	415 / 19.416	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	415 / 19.416
Modification Item 7 of 9: Aviation Tactical Comm Systems (ATCS) - MARS	- / -	160 / 1.050	221 / 3.094	98 / 2.074	- / -	98 / 2.074	184 / 1.641	319 / 1.562	341 / 1.490	166 / 0.725	1,528 / 7.678	3,017 / 19.314
Modification Item 9 of 9: Blue Force Tracking-Aviation (BFT-A)	1,558 / 53.036	450 / 12.762	382 / 8.863	69 / 1.463	- / -	69 / 1.463	- / -	- / -	- / -	- / -	- / -	2,459 / 76.124
Subtotal: Installation	*2,908 / 79.076*	*610 / 13.812*	*603 / 11.957*	*167 / 3.537*	*- / -*	*167 / 3.537*	*184 / 1.641*	*319 / 1.562*	*341 / 1.490*	*166 / 0.725*	*1,528 / 7.678*	*6,826 / 121.478*

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH/HH-60A/L, UH/HH/ MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Total												
Total Cost (Procurement + Support + Installation)	1,041.462	101.355	58.117	72.387	-	72.387	85.081	63.984	38.380	38.233	Continuing	Continuing

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 9: DGNS (AN/ASN-128D) P3I

Manufacturer Information

Manufacturer Name: BAE International Incorporated	Manufacturer Location: Wayne, NJ
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Prototype Assets

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	46 / 0.296	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 0.296
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	46 / 0.296	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 0.296

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46
Out	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 2 of 9: DGNS (AN/ASN-128D) CDU/SW Upgrade ECP B-Kit

Manufacturer Information

Manufacturer Name: BAE International Incorporated	Manufacturer Location: Wayne, NJ
Administrative Leadtime *(in Months)*: 2	Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: Modification Work Order (MWO)

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	450 / 4.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	450 / 4.070
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	450 / 4.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	450 / 4.070

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	450
Out	400	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	450

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 3 of 9: DGNS (AN/ASN-128D) CDU/SW Upgrade ECP A-Kit

Manufacturer Information

Manufacturer Name: Mayflower Communications, Inc.	Manufacturer Location: Boston, MA
Administrative Leadtime *(in Months)*: 2	Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: MWO

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	235 / 1.260	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	235 / 1.260
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	235 / 1.260	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	235 / 1.260

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235
Out	176	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 4 of 9: Embedded GPS Inertial Nav System (EGI) P3I B-Kit

Manufacturer Information

Manufacturer Name: Honeywell, Incorporated	Manufacturer Location: Clearwater, FL
Administrative Leadtime *(in Months)*: 2	Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: MWO

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	51 / 0.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 0.447
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	51 / 0.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 0.447

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51
Out	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 5 of 9: Embedded GPS Inertial Nav System (EGI) P3I A-Kit

Manufacturer Information

Manufacturer Name: Mayflower Communications, Inc.	Manufacturer Location: Boston, MA
Administrative Leadtime *(in Months)*: 2	Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: MWO Installation

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	153 / 0.551	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	153 / 0.551
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	153 / 0.551	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	153 / 0.551

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	153
Out	128	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	153

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 6 of 9: Aviation Tactical Comm Systems (ATCS) - Alt Comms

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime *(in Months)*: 2	Production Leadtime *(in Months)*: 10

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

Installation Information

Method of Implementation: Modification Work Order (MWO)

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	415 / 19.416	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	415 / 19.416
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	415 / 19.416	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	415 / 19.416

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	415
Out	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	415

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 7 of 9: Aviation Tactical Comm Systems (ATCS) - MARS

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: Largo, FL / FT Wayne IN
Administrative Leadtime *(in Months)*: 1	Production Leadtime *(in Months)*: 12

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Nov 2020	Nov 2021	Nov 2022	Nov 2023	Nov 2024	Nov 2025	
Delivery Dates	Oct 2021	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	

Installation Information

Method of Implementation: MWO

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	160 / 1.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 1.050
FY 2022	- / -	- / -	221 / 3.094	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	221 / 3.094
FY 2023	- / -	- / -	- / -	98 / 2.074	- / -	98 / 2.074	- / -	- / -	- / -	- / -	- / -	98 / 2.074
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	184 / 1.641	- / -	- / -	- / -	- / -	184 / 1.641
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	319 / 1.562	- / -	- / -	- / -	319 / 1.562
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	341 / 1.490	- / -	- / -	341 / 1.490
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	166 / 0.725	166 / 1.358	332 / 2.083
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,362 / 6.320	1,362 / 6.320
Total	- / -	160 / 1.050	221 / 3.094	98 / 2.074	- / -	98 / 2.074	184 / 1.641	319 / 1.562	341 / 1.490	166 / 0.725	1,528 / 7.678	3,017 / 19.314

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	40	40	40	40	56	55	55	55	25	25	24	24	46	46	46	46	80	80	80	79	86	85	85	85	42	42	41	41	1,528	3,017
Out	-	-	40	40	40	40	56	55	55	55	25	25	24	24	46	46	46	46	80	80	80	79	86	85	85	85	42	42	41	1,569	3,017

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 8 of 9: Airborne Maritime Fixed (AMF-A) Radio Integration

Manufacturer Information

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

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

Installation Information

Method of Implementation (Organic): Modification Work Order (MWO) - Contractor	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8659AA0723 / Comms, Nav Surveillance	**Modification Number / Title:** AA0723 / Comms, Nav Surveillance
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 9 of 9: Blue Force Tracking-Aviation (BFT-A)

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime *(in Months)*: 1	Production Leadtime *(in Months)*: 12

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Nov 2020	Nov 2021					
Delivery Dates	Oct 2021	Oct 2022					

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	1,558 / 53.036	391 / 11.089	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,949 / 64.125
FY 2021	- / -	59 / 1.673	201 / 4.568	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	260 / 6.241
FY 2022	- / -	- / -	181 / 4.295	61 / 1.401	- / -	61 / 1.401	- / -	- / -	- / -	- / -	- / -	242 / 5.696
FY 2023	- / -	- / -	- / -	8 / 0.062	- / -	8 / 0.062	- / -	- / -	- / -	- / -	- / -	8 / 0.062
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,558 / 53.036	450 / 12.762	382 / 8.863	69 / 1.463	- / -	69 / 1.463	- / -	- / -	- / -	- / -	- / -	2,459 / 76.124

Installation Schedule

		FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027					
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	1,558	112	112	113	113	95	95	96	96	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,459
Out	1,464	94	112	112	113	113	95	95	96	96	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,459

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8660A00713 / Degraded Visual Environment

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	80.778	1.916	-	-	-	-	-	-	-	-	-	82.694
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	80.778	1.916	-	-	-	-	-	-	-	-	-	82.694
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**80.778**	**1.916**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**82.694**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Degraded Visual Environment (DVE) system provides situational awareness to enable hazard avoidance through sensors to support various modes of flight during training and tactical operations. The Army's DVE Directed Requirement is to procure 40 DVE systems and 8 spares for the Army Medical Evacuation and Special Operations helicopters to improve crew situational awareness in brownout environments.

The DVE Army Acquisition Objective has not been established yet.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.916	-	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**1.916**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Justification:

FY21 A00713 had no change in funding and procurement quantities remained at 0. FY21 is currently the last year of APA OCO funding for the DVE DR. No FY 2022 Procurement Requirement.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8662A01006 / Aviation ASSURED PNT

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	-	53.509	45.862	71.130	-	71.130	60.300	59.578	61.130	60.902	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	-	53.509	45.862	71.130	-	71.130	60.300	59.578	61.130	60.902	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**-**	**53.509**	**45.862**	**71.130**	**-**	**71.130**	**60.300**	**59.578**	**61.130**	**60.902**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	133.439	2,293.100	99.067	-	99.067	131.659	82.290	109.161	84.469	Continuing	Continuing

Description:

Prior to FY2021, funding for Aviation ASSURED PNT (Army Navigation Systems) was executed out of Budget Line Item 8659AA0723, Comms, Nav Surveillance.

Assured-Position, Navigation, and Timing (A-PNT) provides Army aviation with unhindered access to trusted Position, Navigation, and Timing information within contested environments. To meet near term APNT modernization requirements, Army Aviation is currently pursuing critical near term capabilities for the enduring fleet. A-PNT will enable aircrews to access and trust PNT information required to conduct PNT dependent tasks and ultimately provide alternate, contingency, or emergency PNT solutions to allow the aircrew to complete the mission or recover safely. To provide the most robust solution, platform level A-PNT includes layers of assurance such as modernized GPS receivers, improved resiliency functions in GPS receivers, navigation equipment, and anti-jam antenna systems. Alternate capabilities will be investigated, evaluated, and implemented into the Embedded GPS Inertial Navigation System (EGI)/Enhanced Aviation GATM Localizer Performance with Vertical Guidance (LPV) EGI (EAGLE)/EAGLE-M as standalone or blended navigation functions. The implementation will be configurable to accept position, velocity, and time measurements from other PNT solutions.

The Doppler Global Positioning System Navigation Set (DGNS) Upgrade program supports system engineering to reduce space, weight, and power as well as supports current and future Civil Airspace requirements. The DGNS hardware upgrades include Non-Recurring Engineering for the Computer Display Unit (CDU) which replaces the current CDU faceplate with a touch screen display, provides a moving navigation map capability, and optimizes pilot interface to promote safer flight operations. The CDU upgrade will support A-PNT operations through additional system upgrades and upgrades to existing DGNS hardware. Fielding of DGNS software upgrades will enhance operations in both civil and military airspace, and support the requirement to maintain A-PNT throughout the Multi-Domain Environment.

EAGLE-M integration and procurement introduces the capability to receive and process the new military code GPS signal security, significantly enhancing A-PNT capability. It supports the requirement to maintain A-PNT throughout operations and requires assessment and follow-on upgrade to the EGI navigation system. EAGLE-M will support future capabilities such as Alternate PNT (ALT-PNT) and additional system upgrades enabling Joint All-Domain Operations (JADO) in contested GPS environments. EAGLE-M enables LPV allowing precision navigation and approach capabilities in the national airspace.

The Multi-platform Anti-jam GPS Navigation Antenna (MAGNA) integration and procurement introduces a GPS anti-jam adaptive antenna system capability that receives legacy and modernized NAVSTAR GPS satellite signals. The MAGNA reduces the effect of GPS jamming by rejecting the interfering signals before they disrupt the GPS receiver enabling the Warfighter continued access to GPS-provided Position, Navigation, and Timing (PNT) in a GPS degraded environment.

This exhibit is for a budget line that procures multiple items and does not have a single Army Acquisition Objective.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8662A01006 / Aviation ASSURED PNT

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	26.755	25.216	39.121	-	39.121	33.165	32.768	33.622	33.496
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	24.079	18.352	28.452	-	28.452	24.120	23.831	24.452	24.361
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.675	2.294	3.557	-	3.557	3.015	2.979	3.056	3.045
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**53.509**	**45.862**	**71.130**	**-**	**71.130**	**60.300**	**59.578**	**61.130**	**60.902**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8662A01006 / Aviation ASSURED PNT

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)
P-3a	A01006 / Aviation ASSURED PNT (New or Improved Operational Capability)				- / -	- / 53.509	- / 45.862	- / 71.130	- / -	- / 71.130
P-40	**Total Gross/Weapon System Cost**				**- / -**	**- / 53.509**	**- / 45.862**	**- / 71.130**	**- / -**	**- / 71.130**

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)
P-3a	A01006 / Aviation ASSURED PNT (New or Improved Operational Capability)				- / 60.300	- / 59.578	- / 61.130	- / 60.902	Continuing	Continuing
P-40	**Total Gross/Weapon System Cost**				**- / 60.300**	**- / 59.578**	**- / 61.130**	**- / 60.902**	**Continuing**	**Continuing**

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

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

Justification:
In FY2022, received a $1.166 million HAC cut that results in a reduction of 13 EAGLE-M boxes.

Due to the FY2022 global supply chain crisis, there is a risk that MAGNA-GPS Anti Jam Antenna deliveries exceed 18 months due to suppliers having unpredictable lead times for procurements of parts and sub-components.

FY2023 Base Procurement dollars in the amount of $37.227 million supports the integration, production, and installation of EAGLE-M for multiple aircraft platforms. There are currently three configurations of EAGLE-M that will be procured that each have varying unit costs. This line also supports product integration at the platform level, of which each platform cost will vary. Further, this line funds the procurement of retrofit kits which enables realized cost savings utilizing legacy EGI's/EAGLE's from the enduring fleet. .

FY2023 Base Procurement dollars in the amount of $1.382 million supports the fielding of software for DGNS Suite E.

FY2023 Base Procurement dollars in the amount of $32.520 million supports the integration, procurement, and installation of MAGNA B Kits. The MAGNAs used for installations shown in FY2023 were procured from the Budget Line Item 8659AA0723 prior to this line becoming active. This line also funds A-Kit integration for this product which cost can vary by platform due to individual platform requirements.

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

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8662A01006 / Aviation ASSURED PNT	**Modification Number / Title:** A01006 / Aviation ASSURED PNT
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	-	53.509	45.862	71.130	-	71.130	60.300	59.578	61.130	60.902	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	-	53.509	45.862	71.130	-	71.130	60.300	59.578	61.130	60.902	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**-**	**53.509**	**45.862**	**71.130**	**-**	**71.130**	**60.300**	**59.578**	**61.130**	**60.902**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	133.439	2,293.100	99.067	-	99.067	131.659	82.290	109.161	84.469	Continuing	Continuing

Description:

Prior to FY2021, funding for Aviation ASSURED PNT (Army Navigation Systems) was executed out of Budget Line Item 8659AA0723, Comms, Nav Surveillance.

Assured-Position, Navigation, and Timing (A-PNT) provides Army aviation with unhindered access to trusted Position, Navigation, and Timing (PNT) information within contested environments. To meet near term A-PNT modernization requirements, Army Aviation is currently pursuing critical near term capabilities for the enduring fleet. A-PNT will enable aircrews to access and trust PNT information required to conduct PNT dependent tasks and ultimately provide alternate, contingency, or emergency PNT solutions to allow the aircrew to complete the mission or recover safely. To provide the most robust solution, platform level A-PNT includes layers of assurance such as modernized Global Navigation Satellite System (GNSS) GPS receivers, improved resiliency functions in GPS receivers, navigation equipment, and anti-jam antenna systems. Alternate capabilities (non-GPS) and/or complimentary PNT solutions will be investigated, evaluated, and implemented as standalone or blended navigation functions. The implementation will be configurable to accept position, velocity, and time measurements from other PNT solutions.

The Doppler Global Positioning System Navigation Set (DGNS) Upgrade program supports system engineering to reduce space, weight, and power as well as supports current and future Civil Airspace requirements. The DGNS hardware upgrades include Non-Recurring Engineering for the Computer Display Unit (CDU) which replaces the current CDU faceplate with a touch screen display, provides a moving navigation map capability, and optimizes pilot interface to promote safer flight operations. The CDU upgrade will support A-PNT with additional system upgrades and upgrades to existing DGNS hardware. Fielding of DGNS software upgrades will enhance operations in both civil and military airspace, and support the requirement to maintain A-PNT throughout the Multi-Domain Environment.

Embedded GPS Inertial Navigation System (EGI)/Enhanced Aviation GATM Localizer Performance with Vertical Guidance (LPV) EGI (EAGLE)/EAGLE-M integration and procurement introduces the capability to receive and process the new military code (M-Code) GPS signal security, significantly enhancing A-PNT capability. It supports the requirement to maintain A-PNT throughout operations and requires assessment and follow-on upgrade to the EGI navigation system. EAGLE-M will support future capabilities such as Alternate PNT (ALT-PNT) and additional system upgrades enabling Joint All-Domain Operations (JADO) in contested GPS environments. EAGLE-M enables LPV allowing precision navigation and approach capabilities in both civil and military airspace.

The Multi-platform Anti-jam GPS Navigation Antenna (MAGNA) integration and procurement introduces a GPS anti-jam adaptive antenna system capability that receives legacy and modernized NAVSTAR GPS satellite signals. The MAGNA reduces the effect of GPS jamming by rejecting the interfering signals before they disrupt the GPS receiver enabling the Warfighter continued access to GPS-provided Position, Navigation, and Timing (PNT) in a GPS degraded environment.

This exhibit is for a budget line that procures multiple items and does not have a single Army Acquisition Objective.

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8662A01006 / Aviation ASSURED PNT	**Modification Number / Title:** A01006 / Aviation ASSURED PNT
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	26.755	25.216	39.121	-	39.121	33.165	32.768	33.622	33.496
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	24.079	18.352	28.452	-	28.452	24.120	23.831	24.452	24.361
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.675	2.294	3.557	-	3.557	3.015	2.979	3.056	3.045
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**53.509**	**45.862**	**71.130**	**-**	**71.130**	**60.300**	**59.578**	**61.130**	**60.902**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8662A01006 / Aviation ASSURED PNT	**Modification Number / Title:** A01006 / Aviation ASSURED PNT
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH/HH-60A/L, UH/HH/ MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Procurement												
Modification Item 1 of 3: DGNS (AN/ASN-128D) CDU/ SW Upgrade ECP B-Kit												
B Kits												
Recurring												
Fielding	- / -	- / 1.174	- / 1.449	- / 0.870	- / -	- / 0.870	- / 0.203	- / -	- / -	- / -	- / -	- / 3.696
Systems Eng / Program Management	- / -	- / 0.723	- / 0.510	- / 0.429	- / -	- / 0.429	- / 0.205	- / -	- / -	- / -	- / -	- / 1.867
Subtotal: Recurring	*- / -*	*- / 1.897*	*- / 1.959*	*- / 1.299*	*- / -*	*- / 1.299*	*- / 0.408*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 5.563*
Non-Recurring												
System Test & Evaluation	- / -	- / 0.385	- / 0.541	- / 0.083	- / -	- / 0.083	- / 0.085	- / -	- / -	- / -	- / -	- / 1.094
Subtotal: Non-Recurring	*- / -*	*- / 0.385*	*- / 0.541*	*- / 0.083*	*- / -*	*- / 0.083*	*- / 0.085*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 1.094*
Subtotal: DGNS (AN/ASN-128D) CDU/ SW Upgrade ECP B-Kit	*- / -*	*- / 2.282*	*- / 2.500*	*- / 1.382*	*- / -*	*- / 1.382*	*- / 0.493*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 6.657*
Modification Item 2 of 3: MAGNA - GPS Anti Jam Antenna												
A Kits												
Recurring												
MAGNA - A-Kits	- / -	225 / 3.278	190 / 1.900	450 / 2.510	- / -	450 / 2.510	503 / 2.758	214 / 1.178	191 / 1.072	444 / 2.666	2,263 / 13.578	4,480 / 28.940
Subtotal: Recurring	*- / -*	*225 / 3.278*	*190 / 1.900*	*450 / 2.510*	*- / -*	*450 / 2.510*	*503 / 2.758*	*214 / 1.178*	*191 / 1.072*	*444 / 2.666*	*2,263 / 13.578*	*4,480 / 28.940*
B Kits												
Recurring												
MAGNA - GPS Anti Jam Antenna	- / -	225 / 8.171	182 / 4.596	455 / 13.892	- / -	455 / 13.892	190 / 5.917	481 / 15.615	182 / 6.413	455 / 15.281	2,302 / 73.664	4,472 / 143.549
Systems Test & Eval	- / -	- / -	- / -	- / 1.036	- / -	- / 1.036	- / 0.175	- / 0.485	- / 1.141	- / 0.171	Continuing	Continuing
Systems Engineering/ Program Management	- / -	- / 2.646	- / 3.204	- / 7.810	- / -	- / 7.810	- / 7.966	- / 8.125	- / 8.288	- / 8.453	Continuing	Continuing
MAGNA - Spares	- / -	19 / 0.703	18 / 0.455	45 / 1.138	- / -	45 / 1.138	20 / 0.516	19 / 0.553	18 / 0.534	45 / 1.256	306 / 9.180	490 / 14.335
Subtotal: Recurring	*- / -*	*244 / 11.520*	*200 / 8.255*	*500 / 23.876*	*- / -*	*500 / 23.876*	*210 / 14.574*	*500 / 24.778*	*200 / 16.376*	*500 / 25.161*	*Continuing*	*Continuing*
Non-Recurring												
Aircraft Integration	- / -	- / 11.408	- / 3.536	- / 2.627	- / -	- / 2.627	- / 2.669	- / 2.698	- / 1.939	- / 2.403	Continuing	Continuing
Subtotal: Non-Recurring	*- / -*	*- / 11.408*	*- / 3.536*	*- / 2.627*	*- / -*	*- / 2.627*	*- / 2.669*	*- / 2.698*	*- / 1.939*	*- / 2.403*	*Continuing*	*Continuing*
Subtotal: MAGNA - GPS Anti Jam Antenna	*- / -*	*469 / 26.206*	*390 / 13.691*	*950 / 29.013*	*- / -*	*950 / 29.013*	*713 / 20.001*	*714 / 28.654*	*391 / 19.387*	*944 / 30.230*	*Continuing*	*Continuing*
Modification Item 3 of 3: Embedded GPS Inertial Nav System (EGI) EAGLE-M B Kit												

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8662A01006 / Aviation ASSURED PNT	**Modification Number / Title:** A01006 / Aviation ASSURED PNT
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH/HH-60A/L, UH/HH/ MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
B Kits												
Recurring												
EGI EAGLE-M	- / -	45 / 4.411	16 / 1.635	165 / 17.441	- / -	165 / 17.441	189 / 20.084	71 / 7.943	160 / 17.816	42 / 4.886	355 / 41.535	1,043 / 115.751
EAGLE M Retrofit	- / -	- / -	- / -	33 / 1.803	- / -	33 / 1.803	39 / 2.173	131 / 7.361	167 / 9.245	158 / 9.216	5,510 / 330.600	6,038 / 360.398
Systems Engineering /Program Management	- / -	- / 3.239	- / 5.522	- / 8.548	- / -	- / 8.548	- / 8.719	- / 8.893	- / 9.070	- / 9.252	Continuing	Continuing
EAGLE-M Spares New	- / -	5 / 0.484	4 / 0.426	17 / 1.838	- / -	17 / 1.838	17 / 1.875	7 / 0.787	16 / 1.836	4 / 0.468	59 / 6.903	129 / 14.617
EAGLE-M Spares Retrofit	- / -	- / -	- / -	2 / 0.098	- / -	2 / 0.098	4 / 0.200	13 / 0.664	17 / 0.885	16 / 0.850	572 / 30.888	624 / 33.585
System Test and Eval	- / -	- / 0.903	- / 3.207	- / 4.136	- / -	- / 4.136	- / 2.098	- / 1.173	- / 0.495	- / 0.544	Continuing	Continuing
Subtotal: Recurring	*- / -*	*50 / 9.037*	*20 / 10.790*	*217 / 33.864*	*- / -*	*217 / 33.864*	*249 / 35.149*	*222 / 26.821*	*360 / 39.347*	*220 / 25.216*	*Continuing*	*Continuing*
Non-Recurring												
Aircraft Integration	- / -	- / 15.984	- / 17.251	- / 3.258	- / -	- / 3.258	- / 0.235	- / 0.449	- / 0.183	- / 0.685	Continuing	Continuing
Subtotal: Non-Recurring	*- / -*	*- / 15.984*	*- / 17.251*	*- / 3.258*	*- / -*	*- / 3.258*	*- / 0.235*	*- / 0.449*	*- / 0.183*	*- / 0.685*	*Continuing*	*Continuing*
Subtotal: Embedded GPS Inertial Nav System (EGI) EAGLE-M B Kit	*- / -*	*50 / 25.021*	*20 / 28.041*	*217 / 37.122*	*- / -*	*217 / 37.122*	*249 / 35.384*	*222 / 27.270*	*360 / 39.530*	*220 / 25.901*	*Continuing*	*Continuing*
Subtotal: Procurement, All Modification Items	*- / -*	*519 / 53.509*	*410 / 44.232*	*1,167 / 67.517*	*- / -*	*1,167 / 67.517*	*962 / 55.878*	*936 / 55.924*	*751 / 58.917*	*1,164 / 56.131*	*Continuing*	*Continuing*
Installation												
Modification Item 2 of 3: MAGNA - GPS Anti Jam Antenna	- / -	- / -	200 / 1.487	243 / 3.508	- / -	243 / 3.508	450 / 4.001	503 / 2.736	214 / 1.580	191 / 3.747	2,635 / 25.947	4,436 / 43.006
Modification Item 3 of 3: Embedded GPS Inertial Nav System (EGI) EAGLE-M B Kit	- / -	- / -	45 / 0.143	33 / 0.105	- / -	33 / 0.105	130 / 0.421	278 / 0.918	188 / 0.633	298 / 1.024	6,672 / 26.537	7,644 / 29.781
Subtotal: Installation	*- / -*	*- / -*	*245 / 1.630*	*276 / 3.613*	*- / -*	*276 / 3.613*	*580 / 4.422*	*781 / 3.654*	*402 / 2.213*	*489 / 4.771*	*9,307 / 52.484*	*12,080 / 72.787*
Total												
Total Cost (Procurement + Support + Installation)	**-**	**53.509**	**45.862**	**71.130**	**-**	**71.130**	**60.300**	**59.578**	**61.130**	**60.902**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8662A01006 / Aviation ASSURED PNT	**Modification Number / Title:** A01006 / Aviation ASSURED PNT
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 3: DGNS (AN/ASN-128D) CDU/ SW Upgrade ECP B-Kit

Manufacturer Information

Manufacturer Name: BAE International Incorporated	Manufacturer Location: Wayne, NJ
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Modification Work Order (MWO)	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8662A01006 / Aviation ASSURED PNT	**Modification Number / Title:** A01006 / Aviation ASSURED PNT
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 2 of 3: MAGNA - GPS Anti Jam Antenna

Manufacturer Information

Manufacturer Name: Mayflower Communications, Inc	Manufacturer Location: Bedford, MA
Administrative Leadtime *(in Months)*: 2	Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: MWO

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	- / -	- / -	- / -	180 / 2.803	- / -	180 / 2.803	- / -	- / -	- / -	- / -	- / -	180 / 2.803
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	200 / 1.487	63 / 0.705	- / -	63 / 0.705	- / -	- / -	- / -	- / -	- / -	263 / 2.192
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	450 / 4.001	- / -	- / -	- / -	- / -	450 / 4.001
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	503 / 2.736	- / -	- / -	- / -	503 / 2.736
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	214 / 1.580	- / -	- / -	214 / 1.580
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	191 / 3.747	- / -	191 / 3.747
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	444 / 4.037	444 / 4.037
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,191 / 21.910	2,191 / 21.910
Total	- / -	- / -	200 / 1.487	243 / 3.508	- / -	243 / 3.508	450 / 4.001	503 / 2.736	214 / 1.580	191 / 3.747	2,635 / 25.947	4,436 / 43.006

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	50	50	50	50	61	61	61	60	112	112	113	113	125	126	126	126	53	53	54	54	47	48	48	48	2,629	4,430
Out	-	-	-	-	-	-	50	50	50	50	61	61	61	60	112	112	113	113	125	126	126	126	53	53	54	54	47	48	48	2,677	4,430

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8662A01006 / Aviation ASSURED PNT	**Modification Number / Title:** A01006 / Aviation ASSURED PNT
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 3 of 3: Embedded GPS Inertial Nav System (EGI) EAGLE-M B Kit

Manufacturer Information

Manufacturer Name: Honeywell, Incorporated	Manufacturer Location: Clearwater, FL
Administrative Leadtime *(in Months)*: 2	Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: MWO

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	45 / 0.143	33 / 0.105	- / -	33 / 0.105	- / -	- / -	- / -	- / -	- / -	78 / 0.248
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	130 / 0.421	- / -	- / -	- / -	- / -	130 / 0.421
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	278 / 0.918	- / -	- / -	- / -	278 / 0.918
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	188 / 0.633	- / -	- / -	188 / 0.633
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	298 / 1.024	- / -	298 / 1.024
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	305 / 1.069	305 / 1.069
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6,367 / 25.468	6,367 / 25.468
Total	- / -	- / -	45 / 0.143	33 / 0.105	- / -	33 / 0.105	130 / 0.421	278 / 0.918	188 / 0.633	298 / 1.024	6,672 / 26.537	7,644 / 29.781

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	11	11	11	12	8	8	8	9	32	32	33	33	69	69	70	70	47	47	47	47	74	74	75	75	6,672	7,644
Out	-	-	-	-	-	-	11	11	11	12	8	8	8	9	32	32	33	33	69	69	70	70	47	47	47	47	74	74	75	6,747	7,644

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	765.300	12.180	16.776	14.683	-	14.683	9.099	5.049	5.086	-	-	828.173
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	765.300	12.180	16.776	14.683	-	14.683	9.099	5.049	5.086	-	-	828.173
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**765.300**	**12.180**	**16.776**	**14.683**	**-**	**14.683**	**9.099**	**5.049**	**5.086**	**-**	**-**	**828.173**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Global Air Traffic Management (GATM) provides the equipment, training, and procedures mandated by Civilian Air Traffic Control (ATC) authorities in order to operate within 21st century airspace. GATM requirements are driven by civil aviation authorities and are not under DoD control. Meeting the worldwide GATM requirement will entail the upgrade and procurement of the Common Transponder (CXP) for rotary wing and Unmanned Aircraft System fleets.

GATM provides Army aircraft with improved capabilities to allow them to continue to operate in civil controlled airspace. Identification Friend or Foe (IFF) Mode 5 provides enhanced security and greatly improved performance and also improves compatibility with civil Air Traffic Control by providing less interference. GATM is also necessary since Europe currently mandates Mode S, a Secondary Surveillance Radar process, and plans expansion of the ability for Air Traffic Controllers to communicate with more aircraft in controlled airspace in high volume traffic areas. Army aircraft will not be allowed to transit through or operate in European airspace affected by these mandates unless the necessary GATM upgrades are made. Benefits of GATM include allowing for operations in worldwide civil controlled airspace and improving safety and operational efficiency while meeting emerging security requirements.

Meeting worldwide GATM requirements for rotary wing and Unmanned Aircraft System (UAS) fleets will entail the upgrading of some existing avionics and the procurement of new systems. The GATM program includes the Alt Comms and Multi-Mode Aviation Radio Set programs, the Common Transponder (CXP) Programs, the Embedded GPS Inertial (EGI) Navigation Systems, and aircraft Flight Management Systems. These systems will provide Army aircraft with improved capabilities to allow them to continue to operate in civil controlled airspace as well as to operate in European controlled airspace. Funding for the EGI Navigation Systems transitioned to the Aviation Assured PNT line, Line Item Number 8662A01006, in FY21.

FY24 is the last year the APX-123A will be produced by industry and requires a buy out of transponders to support the UH-60M production line.

Prior years procured multiple configurations of a common transponder system, including the APX-118 and APX-123. Current generation transponder system's AAO of 3,985 includes both APX-123A and upgrade kits for previous transponder systems

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.699	9.227	8.076	-	8.076	5.004	2.777	2.798	-

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	
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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.872	6.710	5.873	-	5.873	3.640	2.020	2.034	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.609	0.839	0.734	-	0.734	0.455	0.252	0.254	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**12.180**	**16.776**	**14.683**	**-**	**14.683**	**9.099**	**5.049**	**5.086**	**-**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-3a	AA0704 / GATM - Rotary Wing Aircraft (New or Improved Operational Capability)				- / 765.300	- / 12.180	- / 16.776	- / 14.683	- / -	- / 14.683
P-40	**Total Gross/Weapon System Cost**				**- / 765.300**	**- / 12.180**	**- / 16.776**	**- / 14.683**	**- / -**	**- / 14.683**

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-3a	AA0704 / GATM - Rotary Wing Aircraft (New or Improved Operational Capability)				- / 9.099	- / 5.049	- / 5.086	- / -	- / -	- / 828.173
P-40	**Total Gross/Weapon System Cost**				**- / 9.099**	**- / 5.049**	**- / 5.086**	**- / -**	**- / -**	**- / 828.173**

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

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

Justification:

FY23 Base Procurement dollars for $14.683 million supports Common Transponder APX-123A B-Kit integration, procurement, and installation, for a total quantity of 140. The procurement schedule is on track to reach the AAO of 3,985. FY24 is the last year the APX-123A will be produced by industry.

Integration costs for this system vary by platform due to individual platform 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.

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	765.300	12.180	16.776	14.683	-	14.683	9.099	5.049	5.086	-	-	828.173
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	765.300	12.180	16.776	14.683	-	14.683	9.099	5.049	5.086	-	-	828.173
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**765.300**	**12.180**	**16.776**	**14.683**	**-**	**14.683**	**9.099**	**5.049**	**5.086**	**-**	**-**	**828.173**
(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)*	1,552.333	95.906	49.341	104.879	-	104.879	159.632	-	-	-	-	715.793

Description:

Global Air Traffic Management (GATM) provides the equipment, training, and procedures mandated by Civilian Air Traffic Control (ATC) authorities in order to operate within 21st century airspace. GATM requirements are driven by civil aviation authorities and are not under DoD control. Meeting the worldwide GATM requirement will entail the upgrade and procurement of the Common Transponder (CXP) for rotary wing and Unmanned Aircraft System fleets.
GATM provides Army aircraft with improved capabilities to allow them to continue to operate in civil controlled airspace. Identification Friend or Foe (IFF) Mode 5 provides enhanced security and greatly improved performance and also improves compatibility with civil Air Traffic Control by providing less interference. GATM is also necessary since Europe currently mandates Mode S, a Secondary Surveillance Radar process, and plans expansion of the ability for Air Traffic Controllers to communicate with more aircraft in controlled airspace in high volume traffic areas. Army aircraft will not be allowed to transit through or operate in European airspace affected by these mandates unless the necessary GATM upgrades are made. Benefits of GATM include allowing for operations in worldwide civil controlled airspace and improving safety and operational efficiency while meeting emerging security requirements.

Meeting worldwide GATM requirements for rotary wing and Unmanned Aircraft System (UAS) fleets will entail the upgrading of some existing avionics and the procurement of new systems. The GATM program includes the Alt Comms and Multi-Mode Aviation Radio Set programs, the Common Transponder (CXP) Programs, the Embedded GPS Inertial (EGI) Navigation Systems, and aircraft Flight Management Systems. These systems will provide Army aircraft with improved capabilities to allow them to continue to operate in civil controlled airspace as well as to operate in European controlled airspace. Funding for the EGI Navigation Systems transitioned to the Aviation Assured PNT line, Line Item Number 8662A01006, in FY21.

FY24 is the last year the APX-123A will be produced by industry and requires a buy out of transponders to support the UH-60M production line.

Prior years procured multiple configurations of a common transponder system, including the APX-118 and APX-123. Current generation transponder system?s AAO of 3,985 includes both APX-123A and upgrade kits for previous transponder systems

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.699	9.227	8.076	-	8.076	5.004	2.777	2.798	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.872	6.710	5.873	-	5.873	3.640	2.020	2.034	-
AR	Quantity	-	-	-	-	-	-	-	-	-

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
	Total Obligation Authority	0.609	0.839	0.734	-	0.734	0.455	0.252	0.254	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**12.180**	**16.776**	**14.683**	**-**	**14.683**	**9.099**	**5.049**	**5.086**	**-**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH&HH60A/L, CH47D/F, UH60M, MH47G, MH60M, A/MH6, AH64A/D/E, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Procurement												
Modification Item 1 of 6: Global Air Traffic Mgmt RW APX-123												
A Kits												
Recurring												
Kit Quantity - APX-123 A-Kits	680 / 2.531	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	680 / 2.531
Aircraft Integ/RCUs/KIV77	- / 16.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.933
ECP	- / 6.785	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.785
Systems Eng/Prog Mgt (SEPM)	- / 21.245	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.245
Other PM Admin	- / 8.437	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.437
Subtotal: Recurring	*680 / 55.931*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*680 / 55.931*
B Kits												
Recurring												
APX-123 B Kit Conversion Kit (MWO)	1,507 / 10.455	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,507 / 10.455
APX-123A B-Kit Production Line	822 / 30.533	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	822 / 30.533
APX-123 B-Kit Conversion Kit Prod Line	113 / 1.144	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	113 / 1.144
APX-123 B-Kits Production Line	185 / 6.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	185 / 6.878
APX-123 B-Kit (MWO)	60 / 2.231	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 2.231
Fielding/Training	- / 21.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.002
Subtotal: Recurring	*2,687 / 72.243*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*2,687 / 72.243*
Non-Recurring												
B Kit	- / 23.696	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.696
Subtotal: Non-Recurring	*- / 23.696*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*- / 23.696*
Subtotal: Global Air Traffic Mgmt RW APX-123	*3,367 / 151.870*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*3,367 / 151.870*
Modification Item 2 of 6: Global Air Traffic Mgmt RW APX-118 Upgrade Kits												
A Kits												
Recurring												
Kit Qty- Upgrade A-Kits	972 / 4.076	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	972 / 4.076
Engineering Change Orders	- / 1.123	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.123
System Eng/Prog Mgt (SEPM)	- / 9.205	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.205
Subtotal: Recurring	*972 / 14.404*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*972 / 14.404*

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH&HH60A/L, CH47D/F, UH60M, MH47G, MH60M, A/MH6, AH64A/D/E, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
B Kits												
Recurring												
APX-123 Upgrade Kit (MWO)	2,375 / 26.666	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,375 / 26.666
Subtotal: Recurring	*2,375 / 26.666*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*2,375 / 26.666*
Non-Recurring												
B-Kits Nonrecurring	- / 3.520	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.520
Subtotal: Non-Recurring	*- / 3.520*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 3.520*
Subtotal: Global Air Traffic Mgmt RW APX-118 Upgrade Kits	*3,347 / 44.590*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*3,347 / 44.590*
Modification Item 3 of 6: Global Air Traffic Mgmt RW ADS-B												
A Kits												
Recurring												
Kit Qty: ADS-B A-Kits (Installed w/box	828 / 3.513	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	828 / 3.513
Engineering Change Orders	- / 4.079	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.079
Data	- / 3.462	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.462
Training Equipment	- / 3.885	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.885
Fielding	- / 0.845	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.845
System Eng/Prog Mgt (SEPM)	- / 7.887	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.887
System Test & Eval (ST&E)	- / 1.167	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.167
Other- PM Admin	- / 6.245	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.245
Subtotal: Recurring	*828 / 31.083*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*828 / 31.083*
Non-Recurring												
Non-Recurring Engineering	- / 35.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 35.236
Subtotal: Non-Recurring	*- / 35.236*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 35.236*
Subtotal: Global Air Traffic Mgmt RW ADS-B	*828 / 66.319*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*828 / 66.319*
Modification Item 4 of 6: Embedded GPS Inertial (EGI) Navigation System ECP												
A Kits												
Recurring												
Training/Data/Support Equipment	- / 2.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.070
Systems Engineering/Program Management	- / 11.485	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.485

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH&HH60A/L, CH47D/F, UH60M, MH47G, MH60M, A/MH6, AH64A/D/E, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Fielding	- / 1.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.120
Subtotal: Recurring	*- / 14.675*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 14.675*
B Kits												
Recurring												
EGI+ Shipsets	86 / 13.129	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	86 / 13.129
EGI EAGLE-M Shipsets MWO	35 / 5.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 5.099
EGI EAGLE SOA Retrofit Kit Shipsets GFE	95 / 5.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	95 / 5.751
EGI EAGLE SOA/429 Shipsets GFE	173 / 29.492	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	173 / 29.492
Subtotal: Recurring	*389 / 53.471*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*389 / 53.471*
Non-Recurring												
Systems Testing and Evalutation	- / 4.782	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.782
Aircraft Integration	- / 42.467	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.467
Subtotal: Non-Recurring	*- / 47.249*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 47.249*
Subtotal: Embedded GPS Inertial (EGI) Navigation System ECP	*389 / 115.395*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*389 / 115.395*
Modification Item 5 of 6: Common Transponder (CXP)												
A Kits												
Recurring												
ADS-B A-Kit (Wire Harness)	- / 1.938	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.938
System Test and Evaluation	- / 2.417	- / 0.046	- / 0.577	- / 0.159	- / -	- / 0.159	- / 0.032	- / 0.021	- / 0.021	- / -	- / -	- / 3.273
Systems Engineering/Program Management	- / 9.690	- / 2.394	- / 2.413	- / 2.491	- / -	- / 2.491	- / 2.719	- / 2.578	- / 2.513	- / -	- / -	- / 24.798
Fielding/Training	- / 3.475	- / 1.410	- / 1.875	- / 0.974	- / -	- / 0.974	- / 2.136	- / 2.432	- / 2.533	- / -	- / -	- / 14.835
Ancillary Procurements	- / 0.041	- / 0.011	- / 0.011	- / 0.015	- / -	- / 0.015	- / 0.015	- / 0.018	- / 0.019	- / -	- / -	- / 0.130
Subtotal: Recurring	*- / 17.561*	*- / 3.861*	*- / 4.876*	*- / 3.639*	*- / -*	*- / 3.639*	*- / 4.902*	*- / 5.049*	*- / 5.086*	*- / -*	*- / -*	*- / 44.974*
B Kits												
Recurring												
APX-123A B-Kit Spares	66 / 2.766	8 / 0.550	19 / 0.881	25 / 1.449	- / -	25 / 1.449	6 / 0.429	- / -	- / -	- / -	- / -	124 / 6.075
APX-123 B-Kit Conversion Kit - MWO	333 / 3.264	58 / 0.896	106 / 2.153	1 / 0.045	- / -	1 / 0.045	1 / 0.057	- / -	- / -	- / -	- / -	499 / 6.415
APX-123A B-Kit Production Line/GFE	273 / 10.447	45 / 3.121	101 / 3.812	114 / 6.606	- / -	114 / 6.606	50 / 3.711	- / -	- / -	- / -	- / -	583 / 27.697
Subtotal: Recurring	*672 / 16.477*	*111 / 4.567*	*226 / 6.846*	*140 / 8.100*	*- / -*	*140 / 8.100*	*57 / 4.197*	*- / -*	*- / -*	*- / -*	*- / -*	*1,206 / 40.187*
Non-Recurring												
ADS-B Out Non-Recurring Integration	- / 4.202	- / -	- / 3.302	- / 1.989	- / -	- / 1.989	- / -	- / -	- / -	- / -	- / -	- / 9.493

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UH&HH60A/L, CH47D/F, UH60M, MH47G, MH60M, A/MH6, AH64A/D/E, UAS	**Modification Type:** New or Improved Operational Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Subtotal: Non-Recurring	*- / 4.202*	*- / -*	*- / 3.302*	*- / 1.989*	*- / -*	*- / 1.989*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 9.493*
Subtotal: Common Transponder (CXP)	*672 / 38.240*	*111 / 8.428*	*226 / 15.024*	*140 / 13.728*	*- / -*	*140 / 13.728*	*57 / 9.099*	*- / 5.049*	*- / 5.086*	*- / -*	*- / -*	*1,206 / 94.654*
Modification Item 6 of 6: Legacy GATM-RW Mods												
A Kits												
Non-Recurring												
Legacy GATM-RW Mods	- / 331.547	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 331.547
Subtotal: Non-Recurring	*- / 331.547*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 331.547*
Subtotal: Legacy GATM-RW Mods	*- / 331.547*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 331.547*
Subtotal: Procurement, All Modification Items	*8,603 / 747.961*	*111 / 8.428*	*226 / 15.024*	*140 / 13.728*	*- / -*	*140 / 13.728*	*57 / 9.099*	*- / 5.049*	*- / 5.086*	*- / -*	*- / -*	*9,137 / 804.375*
Installation												
Modification Item 1 of 6: Global Air Traffic Mgmt RW APX-123	1,408 / 4.363	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,408 / 4.363
Modification Item 2 of 6: Global Air Traffic Mgmt RW APX-118 Upgrade Kits	2,375 / 10.353	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,375 / 10.353
Modification Item 4 of 6: Embedded GPS Inertial (EGI) Navigation System ECP	35 / 0.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.063
Modification Item 5 of 6: Common Transponder (CXP)	101 / 2.560	232 / 3.752	25 / 1.752	100 / 0.955	- / -	100 / 0.955	- / -	- / -	- / -	- / -	- / -	458 / 9.019
Subtotal: Installation	*3,919 / 17.339*	*232 / 3.752*	*25 / 1.752*	*100 / 0.955*	*- / -*	*100 / 0.955*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*4,276 / 23.798*
Total												
Total Cost (Procurement + Support + Installation)	**765.300**	**12.180**	**16.776**	**14.683**	**-**	**14.683**	**9.099**	**5.049**	**5.086**	**-**	**-**	**828.173**

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 6: Global Air Traffic Mgmt RW APX-123

Manufacturer Information

Manufacturer Name: BAE Systems, Incorporated	Manufacturer Location: Greenlawn, NY
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	1,408 / 4.363	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,408 / 4.363
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,408 / 4.363	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,408 / 4.363

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1,408	24	25	25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,507
Out	1,324	84	24	25	25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,507

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 2 of 6: Global Air Traffic Mgmt RW APX-118 Upgrade Kits

Manufacturer Information

Manufacturer Name: BAE Systems, Incorporated	Manufacturer Location: Greenlawn, NY
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	2,375 / 10.353	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,375 / 10.353
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2,375 / 10.353	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,375 / 10.353

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2,375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,375
Out	2,327	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,375

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 3 of 6: Global Air Traffic Mgmt RW ADS-B

Manufacturer Information

Manufacturer Name: SSAI	Manufacturer Location: Huntsville, AL
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): Modification Work Order (MWO) - Contractor	**Installation Quantity:** 0

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 4 of 6: Embedded GPS Inertial (EGI) Navigation System ECP

Manufacturer Information

Manufacturer Name: Honeywell, Incorporated	Manufacturer Location: Clearwater, FL
Administrative Leadtime *(in Months)*: 2	Production Leadtime *(in Months)*: 12

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

Installation Information

Method of Implementation: Modification Work Order (MWO)

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	35 / 0.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.063
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	35 / 0.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.063

Installation Schedule

		FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027					
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
Out	27	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 5 of 6: Common Transponder (CXP)

Manufacturer Information

Manufacturer Name: BAE Systems, Incorporated	Manufacturer Location: Greenlawn, NY
Administrative Leadtime *(in Months)*: 5	Production Leadtime *(in Months)*: 16

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

Installation Information

Method of Implementation: MWO

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Prior Years	101 / 2.560	201 / 2.516	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	302 / 5.076
FY 2021	- / -	31 / 1.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 1.236
FY 2022	- / -	- / -	25 / 1.752	100 / 0.955	- / -	100 / 0.955	- / -	- / -	- / -	- / -	- / -	125 / 2.707
FY 2023	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	101 / 2.560	232 / 3.752	25 / 1.752	100 / 0.955	- / -	100 / 0.955	- / -	- / -	- / -	- / -	- / -	458 / 9.019

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	101	75	75	75	75	29	29	30	30	25	25	25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	619
Out	75	26	75	75	75	75	29	29	30	30	25	25	25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	619

Exhibit P-3a, Individual Modification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	**P-1 Line Item Number / Title:** 8859AA0711 / GATM Rollup	**Modification Number / Title:** AA0704 / GATM - Rotary Wing Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 6 of 6: Legacy GATM-RW Mods

Manufacturer Information

Manufacturer Name: N/A	Manufacturer Location: N/A
Administrative Leadtime *(in Months)*:	Production Leadtime *(in Months)*:

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

Installation Information

Method of Implementation (Organic): N/A	**Installation Quantity:** 0

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 9555A00018 / RQ-7 UAV MODS

ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0305204A, 0305233A
Line Item MDAP/MAIS Code: N/A		

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	2,287.606	30.000	6.000	-	-	-	-	-	-	-	-	2,323.606
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	2,287.606	30.000	6.000	-	-	-	-	-	-	-	-	2,323.606
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**2,287.606**	**30.000**	**6.000**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2,323.606**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Description:
The Tactical Unmanned Aircraft System (TUAS) provides Army Brigade Combat Teams, Aviation Brigades, and Special Operation Groups situational awareness, improved wide-area target acquisition, Laser Designation, and high value target (HVT) tracking to conduct both shaping and decisive operations with greatly increased lethality. The TUAS meets the need for a day/night, multi sensor collection system with improved connectivity to joint forces that provides real time battle information that cannot be observed from standoff airborne sensor systems, ground collection systems, and scouts. The key performance parameters are blocked into RQ-7B (production) thresholds and subsequent upgrade objectives. The RQ-7B system is a Reconnaissance Surveillance Target Acquisition (RSTA), Command, Control, Communications, and Intelligence (C3I) system that supports Brigade, Battalion, and lower level elements. The RQ-7B Shadow has logged approximately 1,298,000 flight hours, most of which were flown in support of Overseas Contingency Operations (OCO).

The TUAS RQ-7B completed production of 104 Army systems in 2011 (FY 2009 Funding) and entered a modifications phase. These modifications primarily include RQ-7B v2, System Modifications, the RQ-7B v2 Block III System Modification and the improved Electro Optical / Infrared / Laser Designator (EO/IR/LD) payload.

The RQ-7B v2 or Shadow v2 effort incorporates Type 1 Encryption, STANAG 4586 Compliant Software, a Universal Ground Control Station (UGCS), a Universal Ground Data Terminal (UGDT), a STANAG 4586 compliant Portable Ground Control Station, and standardizes modifications introduced during the wars in Iraq and Afghanistan. The last Shadow v2 delivery occurred on 30 September 2020.

The RQ-7B v2 Block III System Modification includes Weatherization, Small Mission (SMC) Computer A-kit, Electro Optical / Infrared / Laser Designator (EO/IR/LD) Universal Interface Assembly, Block III Engine, Communications Relay Installation Kit, and Voice over Internet Protocol (VoIP). Weatherization modifications allow the AV to fly in low visibility conditions and in up to two inches of rain per hour. The SMC is an onboard computer that provides airborne processing power. The SMC addresses obsolescence concerns, features a dual processor, and provides 50x more processing power than the current computer. The EO/ IR/LD Universal Interface Assembly eliminates reliance on a proprietary payload interface, introducing the capability to support payloads from multiple vendors. The Block III engine improves reliability over the current engine, increases thrust and reduces the noise signature of the Shadow system. The Communication Relay upgrade enables voice communications to additional users who utilize other waveforms in the VHF and UHF bands. The VoIP upgrade extends voice communications range from 85 km to 125 km, and provides a more reliable means of voice communications. The overall performance enhancements increase the Shadow's mission capability and survivability.
The Improved EO/IR/LD payload features a modular design that includes enhanced high-resolution HD imagery, improved geo-location precision and an extended long-range target designation capability.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 9555A00018 / RQ-7 UAV MODS	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0305204A, 0305233A
Line Item MDAP/MAIS Code: N/A		

On 16 Nov 17, the Army Acquisition Executive (AAE) approved an increase to the Shadow Army Acquisition Objective (AAO) from 104 to 115 Shadow systems which provides additional capability in the Combat Aviation Brigades (CABs).

Changed the P-Form Modification structure to comply with MIL-STD-881C, align with the R-Forms, and align with ACAT-I reporting requirements. The OSRVT Modification moved to Modification Line A00121 in 2017.

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Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	30.000	6.000	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**30.000**	**6.000**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Justification:
Justification:
FY2023 Funding for RQ-7 UAV MODS is zero ($0).

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.

FY2022 RQ-7 UAV Procurement Funding of $6M include the following Priorities (insufficient funding for all). Exact cost TBD:
3 Replacement High Power Launchers
Integration and Testing for the Magna-I Antennas
10 New Attrition AV Option on the CLS Contract

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	**P-1 Line Item Number / Title:** 9556A01002 / UAS MODS

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	85.099	4.204	3.840	-	-	-	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	85.099	4.204	3.840	-	-	-	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**85.099**	**4.204**	**3.840**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The One System Remote Video Terminal (OSRVT) systems require an update to an Increment II OSRVT. The OSRVT Increment II Upgrade Program of Record (POR) began in FY 2012. The OSRVT Increment II consists of a base system with Remote Operations Video Enhanced Receiver (ROVER) 6 transceiver, tablet computer, Antennas, Type I encryption, Ku-Directional Antennas (KuDA) with an On-The-Move (OTM) capable variant, and an extended range Mobile Directional Antennas System (MDAS). Beginning in FY22, the ROVER 6 will be upgraded to a 6S variant to meet new spectrum requirements and the system will also include a Soldier Portable OsrvT (SPOT) for dismounted users consisting of a wearable tablet computer and a Tactical Net ROVER 2 Encrypted (TNR 2E) transceiver. Software supports decoding Telemetry Data from multiple Manned/Unmanned Aircraft Systems, provides Electro-Optical (EO)/Infrared (IR) payload control, and supports off-target calculations. OSRVT supports current operations as well as FUAS requirements. The OSRVT MODS APE A000121000, began in FY 2017. Prior to FY2017, OSRVT Procurement funds were provided via the SHADOW MODS APE A00018000.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.204	3.840	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**4.204**	**3.840**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Justification:

FY2022 Base funding of $3.840M provides for fielding of On-the-Move (OTM) variant and ROVER 6S / SPOT variant. The OTM variant enables full OSRVT functionality while on moving vehicle mounted systems (Future Vertical Lift (FVL) priority to support expeditionary operations). The ROVER 6S upgrade meets new spectrum requirements in order to maintain interoperability with Small UAS and the SPOT is a wearable variant for dismounted users consisting of a wearable tablet computer and a TNR 2E transceiver.

In accordance with 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.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	**P-1 Line Item Number / Title:** 3632AZ3504 / Aircraft Survivability Equipment

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	849.122	44.455	62.961	167.927	-	167.927	153.181	80.769	96.740	96.354	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	11.565	-	-	-	-	-	-	-	-	-	-	11.565
Net Procurement (P-1) *($ in Millions)*	837.557	44.455	62.961	167.927	-	167.927	153.181	80.769	96.740	96.354	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	11.565	-	-	-	-	-	-	-	-	-	-	11.565
Total Obligation Authority *($ in Millions)*	**849.122**	**44.455**	**62.961**	**167.927**	**-**	**167.927**	**153.181**	**80.769**	**96.740**	**96.354**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding line is a key enabler of the Army Modernization Priorities in support of Future Vertical Lift (FVL) Future Aerial Reconnaissance Aircraft (FARA) and Future Long-Range Assault Aircraft (FLRAA) platforms.

The Aircraft Survivability Equipment (ASE) budget line includes ASE Laser Countermeasures (AZ3508) and ASE Radio Frequency Countermeasures (AZ3511).

AZ3508 ASE Laser CM

Army Procurement Objective (APO) = 1,332 (APO based on B-Kits)

The AN/AVR-2B Laser Detecting Set (LDS) installed on Army rotary-wing aircraft passively detects laser-aided weapons targeting the aircraft and alerts aircrews, allowing them to engage the threat or maneuver to break the targeting. The system detects aircraft illumination by laser rangefinders, laser target designators, and laser beam rider surface-to-air missiles. The system provides the aircrew visual and aural warnings prioritized by threat lethality using 360 degree azimuth and 90 degree elevation field of view coverage. AN/AVR-2B is part of the suite of ASE mission equipment for FVL platforms.

AZ3511 Radio Frequency CM

APO D(V)2 = 120 (APO based on B-Kits)
APO E(V)2 = 1,200 (APO based on B-Kits)

The objective of ASE Development project is to improve Radio Frequency (RF) ASE for Army aviation. The APR-39 Radar Warning Receiver (RWR) detects, categorizes, and prioritizes RF emitters and provides a visual / aural alert to aircrew members warning them of targeting by RF-guided weapons. The Milestone Decision Authority (MDA) approved Phases 1 and 2 of a 3-phased path forward.

Phase 1, APR-39C(V)1/4, serves as an obsolescence / sustainment upgrade to the Processor Line Replaceable Unit (LRU) of APR-39A(V) RWR implemented to ensure that the currently fielded system remains viable until affordable improved RF ASE capability can be pursued in Phases 2 and 3.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	**P-1 Line Item Number / Title:** 3632AZ3504 / Aircraft Survivability Equipment	
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		

Phase 2A, RWR Modernization begins by adopting the United States Navy APR-39D(V)2 system. APR-39D(V)2 will significantly improve the RF threat coverage, automatic detection and identification of threat types, bearing and lethality. Phase 2B, the APR-39E(V)2 Modernized Radar Warning Receiver (MRWR), is an Army Engineering Change Proposal (ECP) to APR-39D(V)2, approved in the Acquisition Decision Memorandum (ADM) signed June 24, 2019. This ECP will implement enhanced hardware and software upgrades to keep APR-39 technically relevant against new and emerging agile threats. APR-39E(V)2 is part of the suite of ASE mission equipment for the FVL platforms

Phase 3 adds active Radio Frequency Electronic Countermeasures (RF-ECM) capability for selected aircraft with Material Development Decision (MDD) planned in the future.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	44.455	62.961	167.927	-	167.927	153.181	80.769	96.740	96.354
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**44.455**	**62.961**	**167.927**	**-**	**167.927**	**153.181**	**80.769**	**96.740**	**96.354**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	**P-1 Line Item Number / Title:** 3632AZ3504 / Aircraft Survivability Equipment

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-5	AZ3508 / ASE Laser CM				- / 448.561	- / 7.565	- / 8.120	- / 9.044	- / -	- / 9.044
P-5	AZ3511 / Radio Frequency CM	P-5a, P-21			- / 400.561	- / 36.890	- / 54.841	- / 158.883	- / -	- / 158.883
P-40	**Total Gross/Weapon System Cost**				**- / 849.122**	**- / 44.455**	**- / 62.961**	**- / 167.927**	**- / -**	**- / 167.927**

*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:
AZ3508 ASE Laser CM: FY 2023 Base Procurement dollars in the amount of $9.044 million funds training, technical support, government management, and installation of (40) CH-47F A-Kits on Rotary Wing aircraft in support of required operational capabilities and integration of AN/AVR-2B LDS with other ASE systems.

AZ3511 Radio Frequency CM: FY 2023 Base Procurement dollars in the amount of $158.883 million funds procuring (7) integration assets, procuring (48) APR-39E(V)2 B-Kits, spares, (52) APR-39E(V)2 A Kits, test and evaluation, mission data set (MDS), other software sustainment, interim contractor logistics support, support equipment, training and government management.

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.

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 3632AZ3504 / Aircraft Survivability Equipment	**Item Number / Title [DODIC]:** AZ3508 / ASE Laser CM
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	448.561	7.565	8.120	9.044	-	9.044
Less PY Advance Procurement *($ in Millions)*	11.565	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	436.996	7.565	8.120	9.044	-	9.044
Plus CY Advance Procurement *($ in Millions)*	11.565	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**448.561**	**7.565**	**8.120**	**9.044**	**-**	**9.044**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)						
Initial Spares *($ in Millions)*	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
Non Recurring Engineering (A-Kit)	-	-	13.688	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A-Kit Procurement	42.382	1,113	47.171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A-Kit Installation UH-60L	74.568	760	56.672	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A-Kit filters	-	-	18.529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-Kit Procurement	146.928	1,332	195.708	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Systems Engineering	-	-	19.985	-	-	0.295	-	-	0.302	-	-	0.310	-	-	-	-	-	0.310
Program Management	-	-	17.261	-	-	0.336	-	-	0.386	-	-	0.550	-	-	-	-	-	0.550
Prime Contractor Prgm Mgt / Engr Spt	-	-	6.379	-	-	0.281	-	-	0.568	-	-	0.594	-	-	-	-	-	0.594
Software	-	-	9.936	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Changes	-	-	0.638	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Systems Test and Evaluation	-	-	29.387	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Training / Logistics	-	-	22.653	-	-	1.142	-	-	1.673	-	-	1.988	-	-	-	-	-	1.988
Depot / Field Support	-	-	6.636	-	-	0.302	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	2.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Procurement	-	-	0.188	-	-	0.030	-	-	-	-	-	-	-	-	-	-	-	-
A-Kit Installation CH-47F	103.750	8	0.830	98.500	40	3.940	94.400	40	3.776	99.850	40	3.994	-	-	-	99.850	40	3.994
Tech Support	-	-	-	-	-	1.239	-	-	0.740	-	-	1.608	-	-	-	-	-	1.608

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 3632AZ3504 / Aircraft Survivability Equipment	**Item Number / Title [DODIC]:** AZ3508 / ASE Laser CM
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Data- Threat Analysis	-	-	-	-	-	-	-	-	0.675	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	*448.561*	-	-	*7.565*	-	-	*8.120*	-	-	*9.044*	-	-	-	-	-	*9.044*
Subtotal: Flyaway Cost	**-**	**-**	***448.561***	**-**	**-**	***7.565***	**-**	**-**	***8.120***	**-**	**-**	***9.044***	**-**	**-**	**-**	**-**	**-**	***9.044***
Gross/Weapon System Cost	**-**	**-**	**448.561**	**-**	**-**	**7.565**	**-**	**-**	**8.120**	**-**	**-**	**9.044**	**-**	**-**	**-**	**-**	**-**	**9.044**

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	7.565	8.120	9.044	-	9.044
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**7.565**	**8.120**	**9.044**	**-**	**9.044**

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 3632AZ3504 / Aircraft Survivability Equipment	Item Number / Title [DODIC]: AZ3511 / Radio Frequency CM
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	400.561	36.890	54.841	158.883	-	158.883
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	400.561	36.890	54.841	158.883	-	158.883
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**400.561**	**36.890**	**54.841**	**158.883**	**-**	**158.883**
(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)*	66,760.167	-	-	3,310.063	-	3,310.063

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Non Recurring Cost																		
A-Kit NRE	-	-	128.159	-	-	0.731	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	*128.159*	-	-	*0.731*	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	**-**	**-**	***128.159***	**-**	**-**	***0.731***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Hardware Cost																		
Recurring Cost																		
A-Kit Procurement(†)	120.098	82	9.848	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A-Kit Installs	219.000	13	2.847	247.333	12	2.968	227.792	24	5.467	-	-	-	-	-	-	-	-	-
B-Kit Procurement(†)	438.966	89	39.068	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Replacement Flight Line Test Sets	-	-	9.169	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Retrofit	-	-	3.221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-Kit Spares	-	-	4.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E(V)2 Integration Assets(†)	-	-	-	1,720.000	6	10.320	1,720.000	13	22.360	1,720.000	7	12.040	-	-	-	1,720.000	7	12.040
D(V)2 Integration Assets	889.450	20	17.789	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A-Kit Procurement EV2	-	-	-	-	-	-	-	-	-	142.769	52	7.424	-	-	-	142.769	52	7.424
B-Kit Procurement EV2(†)	-	-	-	-	-	-	-	-	-	1,720.000	48	82.560	-	-	-	1,720.000	48	82.560

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 3632AZ3504 / Aircraft Survivability Equipment	Item Number / Title [DODIC]: AZ3511 / Radio Frequency CM
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
B-Kit Spares EV2	-	-	-	-	-	-	-	-	-	-	-	16.628	-	-	-	-	-	16.628
Subtotal: Recurring Cost	-	-	*86.042*	-	-	*13.288*	-	-	*27.827*	-	-	*118.652*	-	-	-	-	-	*118.652*
Non Recurring Cost																		
System Test and Evaluation	-	-	26.278	-	-	0.851	-	-	5.525	-	-	3.571	-	-	-	-	-	3.571
Other	-	-	24.548	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Technology Insertion/ Hardware parts	-	-	0.601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Withhold	-	-	1.652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	*53.079*	-	-	*0.851*	-	-	*5.525*	-	-	*3.571*	-	-	-	-	-	*3.571*
Subtotal: Hardware Cost	**-**	**-**	***139.121***	**-**	**-**	***14.139***	**-**	**-**	***33.352***	**-**	**-**	***122.223***	**-**	**-**	**-**	**-**	**-**	***122.223***
Software Cost																		
Non Recurring Cost																		
Mission Data Set (MDS)	-	-	17.737	-	-	2.961	-	-	2.122	-	-	6.362	-	-	-	-	-	6.362
Other Software Sustainment	-	-	26.958	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Integration Lab (SIL) and RF Threat Generation	-	-	15.940	-	-	2.200	-	-	1.025	-	-	2.500	-	-	-	-	-	2.500
Subtotal: Non Recurring Cost	-	-	*60.635*	-	-	*5.161*	-	-	*3.147*	-	-	*8.862*	-	-	-	-	-	*8.862*
Subtotal: Software Cost	**-**	**-**	***60.635***	**-**	**-**	***5.161***	**-**	**-**	***3.147***	**-**	**-**	***8.862***	**-**	**-**	**-**	**-**	**-**	***8.862***
Logistics Cost																		
Recurring Cost																		
Training	-	-	0.807	-	-	0.420	-	-	-	-	-	1.388	-	-	-	-	-	1.388
Fielding	-	-	7.442	-	-	0.690	-	-	-	-	-	-	-	-	-	-	-	-
ICLS/ICS	-	-	4.647	-	-	4.044	-	-	4.523	-	-	4.897	-	-	-	-	-	4.897
Subtotal: Recurring Cost	-	-	*12.896*	-	-	*5.154*	-	-	*4.523*	-	-	*6.285*	-	-	-	-	-	*6.285*
Non Recurring Cost																		
Other	-	-	1.980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Equipment	-	-	-	-	-	1.862	-	-	4.300	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	*1.980*	-	-	*1.862*	-	-	*4.300*	-	-	-	-	-	-	-	-	-
Subtotal: Logistics Cost	**-**	**-**	***14.876***	**-**	**-**	***7.016***	**-**	**-**	***8.823***	**-**	**-**	***6.285***	**-**	**-**	**-**	**-**	**-**	***6.285***
Support - Program Management Cost																		
Contractor Management	-	-	17.514	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 3632AZ3504 / Aircraft Survivability Equipment	Item Number / Title [DODIC]: AZ3511 / Radio Frequency CM
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Government Management	-	-	15.295	-	-	3.690	-	-	5.484	-	-	6.900	-	-	-	-	-	6.900
Subtotal: Support - Program Management Cost	**-**	**-**	***32.809***	**-**	**-**	***3.690***	**-**	**-**	***5.484***	**-**	**-**	***6.900***	**-**	**-**	**-**	**-**	**-**	***6.900***
Support - System Engineering Cost																		
System Engineering	-	-	24.961	-	-	6.153	-	-	4.035	-	-	14.613	-	-	-	-	-	14.613
Subtotal: Support - System Engineering Cost	**-**	**-**	***24.961***	**-**	**-**	***6.153***	**-**	**-**	***4.035***	**-**	**-**	***14.613***	**-**	**-**	**-**	**-**	**-**	***14.613***
Gross/Weapon System Cost	**66,760.167**	**-**	**400.561**	**-**	**-**	**36.890**	**-**	**-**	**54.841**	**3,310.063**	**-**	**158.883**	**-**	**-**	**-**	**3,310.063**	**-**	**158.883**

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	36.890	54.841	158.883	-	158.883
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**36.890**	**54.841**	**158.883**	**-**	**158.883**

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 3632AZ3504 / Aircraft Survivability Equipment	Item Number / Title [DODIC]: AZ3511 / Radio Frequency CM

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
A-Kit Procurement		2017	Prototype Integration Facility / Redstone Arsenal, AL	C / CPFF	Redstone Arsenal, AL	Mar 2017	Mar 2019	82	93.790	N		
B-Kit Procurement		2016	Northrop Grumman / Rolling Meadows, IL	SS / FFP	Patuxent River, MD	Sep 2017	Mar 2019	16	974.750	N		
B-Kit Procurement		2017	Northrop Grumman / Rolling Meadows, IL	SS / FFP	Patuxent River, MD	Sep 2017	Sep 2019	38	974.920	N		
B-Kit Procurement		2018	Northrop Grumman / Rolling Meadows, IL	SS / FFP	Patuxent River, MD	Jan 2018	Dec 2019	29	728.379	N		
B-Kit Procurement		2019	Northrop Grumman / Rolling Meadows, IL	SS / FFP	Patuxent River, MD	Jan 2019	Jun 2020	6	933.833	N		
E(V)2 Integration Assets(†)		2021	Northrop Grumman / Rolling Meadow, IL	SS / FFP	Patuxent River MD	Aug 2021	Feb 2023	6	1,720.000	N		
E(V)2 Integration Assets(†)		2022	Northrop Grumman / Rolling Meadow, IL	SS / FFP	Patuxent River, MD	Apr 2022	Apr 2024	13	1,720.000	N		
E(V)2 Integration Assets(†)		2023	Northrop Grumman / Rolling Meadow, IL	SS / FFP	Forth Worth, TX	Feb 2023	Feb 2025	7	1,720.000	N		
B-Kit Procurement EV2(†)		2023	Northrop Grumman / Rolling Meadow, IL	SS / FFP	Forth Worth, TX	Mar 2023	Mar 2025	48	1,720.000	N		

(†) indicates the presence of a P-21

Remarks:
Fiscal Year (FY) 2016, 2017, 2018, and 2019 leverages Navy contract for APR-39D(V)2 B-Kit procurement

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 3632AZ3504 / Aircraft Survivability Equipment	**Item Number / Title [DODIC]:** AZ3511 / Radio Frequency CM

Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018												BALANCE
										Calendar Year 2017												Calendar Year 2018									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
E(V)2 Integration Assets																															
	1	2021	ARMY	6	0	6																									6
	1	2022	ARMY	13	0	13																									13
	1	2023	ARMY	7	0	7																									7
B-Kit Procurement EV2																															
	2	2023	ARMY	48	0	48																									48
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 3632AZ3504 / Aircraft Survivability Equipment	**Item Number / Title [DODIC]:** AZ3511 / Radio Frequency CM

Cost Elements (Units in Each)							Fiscal Year 2019												Fiscal Year 2020												BALANCE
							Calendar Year 2019												Calendar Year 2020												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
E(V)2 Integration Assets																															
	1	2021	ARMY	6	0	6																									6
	1	2022	ARMY	13	0	13																									13
	1	2023	ARMY	7	0	7																									7
B-Kit Procurement EV2																															
	2	2023	ARMY	48	0	48																									48
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 3632AZ3504 / Aircraft Survivability Equipment	**Item Number / Title [DODIC]:** AZ3511 / Radio Frequency CM

Cost Elements (Units in Each)							Fiscal Year 2021												Fiscal Year 2022												BALANCE
										Calendar Year 2021												Calendar Year 2022									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
E(V)2 Integration Assets																															
	1	2021	ARMY	6	0	6											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	6
	1	2022	ARMY	13	0	13																			A -	-	-	-	-	-	13
	1	2023	ARMY	7	0	7																									7
B-Kit Procurement EV2																															
	2	2023	ARMY	48	0	48																									48
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 3632AZ3504 / Aircraft Survivability Equipment	**Item Number / Title [DODIC]:** AZ3511 / Radio Frequency CM

Cost Elements (Units in Each)							Fiscal Year 2023												Fiscal Year 2024												BALANCE
							Calendar Year 2023												Calendar Year 2024												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
E(V)2 Integration Assets																															
	1	2021	ARMY	6	0	6	-	-	-	-	1	2	2	1																	0
	1	2022	ARMY	13	0	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	1
	1	2023	ARMY	7	0	7					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
B-Kit Procurement EV2																															
	2	2023	ARMY	48	0	48						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 3632AZ3504 / Aircraft Survivability Equipment	**Item Number / Title [DODIC]:** AZ3511 / Radio Frequency CM

Cost Elements (Units in Each)							Fiscal Year 2025												Fiscal Year 2026												BALANCE
										Calendar Year 2025												Calendar Year 2026									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
E(V)2 Integration Assets																															
	1	2021	ARMY	6	6	0																									0
	1	2022	ARMY	13	12	1	1																								0
	1	2023	ARMY	7	0	7	-	-	-	-	2	2	2	1																	0
B-Kit Procurement EV2																															
	2	2023	ARMY	48	0	48	-	-	-	-	-	6	6	4	4	4	4	4	4	4	4	4									0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 3632AZ3504 / Aircraft Survivability Equipment	**Item Number / Title [DODIC]:** AZ3511 / Radio Frequency CM

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
					Initial				Reorder			
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Northrop Grumman - Rolling Meadow, IL	2	11	20	0	0	24	24	0	0	0	0
2	Northrop Grumman - Rolling Meadow, IL	2	11	20	0	0	24	24	0	0	0	0

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

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	**P-1 Line Item Number / Title:** 5044AZ3507 / Survivability CM

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	3,501.725	8.035	5.104	6.622	-	6.622	6.654	-	-	-	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	3,501.725	8.035	5.104	6.622	-	6.622	6.654	-	-	-	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**3,501.725**	**8.035**	**5.104**	**6.622**	**-**	**6.622**	**6.654**	**-**	**-**	**-**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Advanced Threat Infrared Countermeasure (ATIRCM) is an infrared (IR) countermeasure system that interfaces with the Common Missile Warning System (CMWS) to provide near spherical protection of the host aircraft platform in order to defeat IR threat missiles. The operational concept of ATIRCM is as part of the Suite of Integrated Infrared Countermeasures (SIIRCM). The core components of the SIIRCM concept are: a Missile Warning System, expendable countermeasures (flares) and a laser based IR countermeasure (IRCM). The CMWS detects, declares, and initiates IRCM against IR-guided Surface-to-Air Missiles or Air-to-Air Missiles. ATIRCM takes a hand-off cue from CMWS and then takes immediate action as a laser based countermeasure against the incoming threat missile.

The A-Kit for ATIRCM includes mounting hardware, wiring harnesses, and other components necessary to install and interface the mission kit on host aircraft. The ATIRCM B-Kit is the mission kit (laser, optical coupler, infrared jam head, and jam head control unit) required to achieve near spherical coverage for an aircraft.

The ATIRCM program is a post-Milestone C, Acquisition Category 1C program of record fielded on CH-47F aircraft.

The approved Army Acquisition Objective for ATIRCM is 340 A-Kits and 120 B-Kits.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.035	5.104	6.622	-	6.622	6.654	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**8.035**	**5.104**	**6.622**	**-**	**6.622**	**6.654**	**-**	**-**	**-**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	**P-1 Line Item Number / Title:** 5044AZ3507 / Survivability CM

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-5	AZ3507 / Survivability CM	P-5a			- / 3,501.725	- / 8.035	- / 5.104	- / 6.622	- / -	- / 6.622
P-40	**Total Gross/Weapon System Cost**				**- / 3,501.725**	**- / 8.035**	**- / 5.104**	**- / 6.622**	**- / -**	**- / 6.622**

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

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

Justification:
FY 2023 Base Procurement dollars in the amount of $6.622 million supports Divestiture Optimization, Cyber Security, Risk Management Framework, System Engineering Program Management, and logistics support across the CH-47F aircraft fleet.

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 responses, and providing military support to civil authorities.

All COMPO 1 Active

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 5044AZ3507 / Survivability CM	Item Number / Title [DODIC]: AZ3507 / Survivability CM
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	3,501.725	8.035	5.104	6.622	-	6.622
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	3,501.725	8.035	5.104	6.622	-	6.622
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**3,501.725**	**8.035**	**5.104**	**6.622**	**-**	**6.622**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)						
Initial Spares *($ in Millions)*	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
Non-Recurring Production	-	-	140.382	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A-Kit Procurement	541.000	167	90.347	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A-Kit/Pod Bay Door Installation(†)	148.424	290	43.043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-Kit Procurement	3,416.000	120	409.920	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pod Bay Door Procurement	15.030	167	2.510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Changes	-	-	10.772	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management	-	-	56.578	-	-	0.871	-	-	0.480	-	-	0.884	-	-	-	-	-	0.884
System Test & Evaluation	-	-	100.564	-	-	3.052	-	-	2.719	-	-	-	-	-	-	-	-	-
Training	-	-	14.518	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Data	-	-	0.776	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Equipment	-	-	3.501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	129.918	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Legacy ATIRCM/ CMWS Procurement	-	-	2,496.237	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATIRCM Divestiture Optimization	-	-	-	-	-	1.000	-	-	-	-	-	5.738	-	-	-	-	-	5.738
Subtotal: Recurring Cost	-	-	*3,499.066*	-	-	*4.923*	-	-	*3.199*	-	-	*6.622*	-	-	-	-	-	*6.622*
Subtotal: Flyaway Cost	**-**	**-**	***3,499.066***	**-**	**-**	***4.923***	**-**	**-**	***3.199***	**-**	**-**	***6.622***	**-**	**-**	**-**	**-**	**-**	***6.622***

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 5044AZ3507 / Survivability CM	Item Number / Title [DODIC]: AZ3507 / Survivability CM
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Software Cost																		
Recurring Cost																		
Software Support	-	-	2.659	-	-	3.112	-	-	1.905	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	*2.659*	-	-	*3.112*	-	-	*1.905*	-	-	-	-	-	-	-	-	-
Subtotal: Software Cost	**-**	**-**	***2.659***	**-**	**-**	***3.112***	**-**	**-**	***1.905***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Gross/Weapon System Cost	**-**	**-**	**3,501.725**	**-**	**-**	**8.035**	**-**	**-**	**5.104**	**-**	**-**	**6.622**	**-**	**-**	**-**	**-**	**-**	**6.622**

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	8.035	5.104	6.622	-	6.622
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**8.035**	**5.104**	**6.622**	**-**	**6.622**

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 5044AZ3507 / Survivability CM	Item Number / Title [DODIC]: AZ3507 / Survivability CM

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
A-Kit/Pod Bay Door Installation		2017	Aviation Field Maint Division / Redstone Arsenal, AL	MIPR	Redstone Arsenal, AL	Oct 2016	Oct 2016	43	36.000	N		
A-Kit/Pod Bay Door Installation		2018	Aviation Field Maint Division / Redstone Arsenal, AL	MIPR	Redstone Arsenal, AL	Oct 2017	Oct 2017	45	37.089	N		
A-Kit/Pod Bay Door Installation		2019	Aviation Field Maint Division / Redstone Arsenal, AL	MIPR	Redstone Arsenal, AL	Oct 2018	Oct 2018	36	35.122	N		
A-Kit/Pod Bay Door Installation		2020	Aviation Field Maint Division / Redstone Arsenal, AL	MIPR	Redstone Arsenal, AL	Oct 2019	Oct 2019	35	33.650	N		

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	**P-1 Line Item Number / Title:** 5397AZ3517 / CMWS

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605051A

Line Item MDAP/MAIS Code: 219

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	153	100	-	-	-	-	-	-	-	-	-	253
Gross/Weapon System Cost *($ in Millions)*	1,174.977	159.729	148.570	107.112	-	107.112	13.797	5.315	14.507	14.502	706.012	2,344.521
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,174.977	159.729	148.570	107.112	-	107.112	13.797	5.315	14.507	14.502	706.012	2,344.521
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,174.977**	**159.729**	**148.570**	**107.112**	**-**	**107.112**	**13.797**	**5.315**	**14.507**	**14.502**	**706.012**	**2,344.521**
(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)*	7,679.588	1,597.290	-	-	-	-	-	-	-	-	-	9,266.881

Description:

This funding line is a key enabler of the Army Modernization Priorities in support of the Aviation Survivability Equipment (ASE).

Common Missile Warning System (CMWS):

Army Procurement Objective (APO) = 1,351 (B-Kits)
The CMWS program is a missile warning system that cues both flare and laser-based countermeasures to defeat incoming Infrared (IR)-seeking missiles and will alert aircrews to the presence of certain incoming unguided munitions. The B-Kit consists of the components which perform the missile detection and aircrew notification, unguided munitions detection and aircrew notification, false alarm rejection, and countermeasure employment/cueing functions of the system. The CMWS Electronic Control Unit (ECU) receives ultraviolet (UV) missile detection data from Electro-Optic Missile Sensors (EOMS), which detects UV signals, and sends a missile alert signal to warn aircrews via on-board avionics. Tier 1 threat missiles detected and tracked by the CMWS are subsequently defeated by a combination of missile seeker countermeasures, including decoy flares and IR Laser Jamming (currently Common Infrared Countermeasure (CIRCM) and Advanced Threat Infrared Countermeasures (ATIRCM)-equipped CH-47 platform only). In addition, the CMWS ECU receives from the EOMS unguided munitions detection data which is also passed to the aircrew through aural and visual cues. The aircrew then applies the appropriate Tactics, Techniques and Procedures (TTPs) to break contact or engage the enemy with on-ship ordnance. The CMWS Generation 3 (Gen 3) ECU in conjunction with ongoing software development efforts will address outstanding materiel release conditions and ensure protection against emerging IR-guided missile threats. Due to evolving threats, CMWS will remain in the Army inventory beyond 2040 and must remain relevant against emerging threats.

The CMWS A-Kit includes mounting hardware, wiring harnesses, cables, and other components necessary to install and interface the mission kit on host aircraft. The A-Kit ensures the mission kit is functionally and physically operational with a specific host aircraft type.

Joint Urgent Operational Needs Statement (JUONS)/Common Infrared Countermeasure Quick Reaction Capability (CIRCM QRC):

APO = 42 (B-Kits)
As a part of Phase 2a of the JUONS (SO-0010) program, the Army integrated the Department of the Navy Large Aircraft Infrared Countermeasure (DoN LAIRCM) system onto the Army and Special Operations Aircraft platforms. Due to a number of challenges, circumstances, and variables, the Army updated the Advanced Threat Warning (ATW)/CIRCM QRC and Limited Interim Missile Warning System (LIMWS) Directed Requirements (dated November 16, 2018). The updated requirements extend the utilization of ATW DoN LAIRCM on conventional Army aircraft and cancel the need for the ATW/CIRCM QRC system

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	**P-1 Line Item Number / Title:** 5397AZ3517 / CMWS	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0605051A
Line Item MDAP/MAIS Code: 219		

for the conventional Army. (It should be noted that the updated requirement maintains the need for ATW/CIRCM on the Special Operations Aircraft. Sustainment of ATW on Special Operations Aircraft will transfer to Special Operations Aircraft budget line in FY23). As a result, the Army did not acquire the ATW sensors for use in Phase 3 of the JUONS effort. Instead, the Army accelerated the procurement of the CIRCM QRC systems for use with the currently fielded CMWS in preparation for transition to the LIMWS system.

LIMWS QRC:

APO = 399 (B-Kits)
Phase 4 LIMWS QRC addresses the HQDA Directed Requirement to provide a greater capability than CMWS, the current Program of Record (POR), to bridge the gap between CMWS and the future POR. LIMWS is required in order to maintain overmatch of quickly emerging threat technology and tactics by providing increased detection range, improved detection in clutter, more agile algorithms to rapidly respond to emerging threats, and eliminates the need for sensor alignment.

References:
- Joint Staff, J-8 Deputy Director for Requirements (DOR) memorandum, April 24, 2015
- Phase 2a SOCOM JUONs SO-0010, Joint Rapid Acquisition Cell (JRAC) memorandum, May 29, 2015
- Directed Requirement for the Phase 3 Advanced Threat Warner and Common Infrared Countermeasure Quick Reaction Capability (ATW/CIRCM QRC) to Support Joint Urgent Operational Need (JUON) SO-0010, CIRCM Critical Intelligence Parameters Breach, December 18, 2015
- Directed Requirement for Limited Interim Missile Warning System to Detect Enemy Man Portable Air Defense Systems, March 26, 2017
- Update to the Directed Requirement for the United States Special Operations Command Joint Urgent Operational Needs SO-0010 Threat Detection and Countermeasures to Enemy Man Portable Air Defense System Capability, November 16, 2018
- Directed Requirement for Limited Interim Missile Warning System to Detect Enemy Man Portable Air Defense Systems, November 16, 2018
- Aircraft Survivability Equipment (ASE) Modernization Fielding Guidance, Change 1, November 19, 2018

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	100	-	-	-	-	-	-	-	-
	Total Obligation Authority	159.729	148.570	107.112	-	107.112	13.797	5.315	14.507	14.502
Total: Secondary Distribution	**Quantity**	**100**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**159.729**	**148.570**	**107.112**	**-**	**107.112**	**13.797**	**5.315**	**14.507**	**14.502**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	**P-1 Line Item Number / Title:** 5397AZ3517 / CMWS	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0605051A
Line Item MDAP/MAIS Code: 219		

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-5	AZ3517 / CMWS	P-5a			153 / 1,174.977	100 / 159.729	- / 148.570	- / 107.112	- / -	- / 107.112
P-40	**Total Gross/Weapon System Cost**				**153 / 1,174.977**	**100 / 159.729**	**- / 148.570**	**- / 107.112**	**- / -**	**- / 107.112**

*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:
CMWS: FY 2023 Base Procurement dollars in the amount of $13.616 million supports CMWS software modifications, software concurrency, contractor support, system of system analysis, algorithm solutions, and system test and evaluation (ST&E) efforts.

JUONS Phase 2a DoN LAIRCM: FY 2023 Base Procurement dollars in the amount of $32.700 million for direct combat support expenses for Operation Inherent Resolve will fund software updates, demodification, engineering support, and Systems Engineering and Program Management (SEPM).

Phase 4 LIMWS QRC: FY 2023 Base Procurement dollars in the amount of $60.796 million for direct combat support expenses for Operation Inherent Resolve will fund the procurement and installation of A-Kits for MH-60M, MH-47G, HH/UH-60M, CH-47F, and AH-64E aircraft; training and publications; test and special equipment; continued software maintenance / updates, testing, and integration updates on all fielded platforms; contractor logistics support; and SEPM.

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.

All COMPO 1 Active

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 5397AZ3517 / CMWS	Item Number / Title [DODIC]: AZ3517 / CMWS
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	153	100	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,174.977	159.729	148.570	107.112	-	107.112
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,174.977	159.729	148.570	107.112	-	107.112
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,174.977**	**159.729**	**148.570**	**107.112**	**-**	**107.112**
(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)*	7,679.588	1,597.290	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Hardware Cost																		
Recurring Cost																		
CMWS A-Kit Fixed Wing Installation	2,974.222	18	53.536	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CMWS A-Kit Rotary Wing Installation	657.000	10	6.570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CMWS Gen 3 ECU Hardware	261.671	432	113.042	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CMWS Gen 3 User Data Module (UDM)	-	-	9.607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CMWS Other Recurring Prod (Software/Engineer)	-	-	201.669	-	-	1.512	-	-	5.716	-	-	5.612	-	-	-	-	-	5.612
CMWS Systems Engineering	-	-	28.554	-	-	1.202	-	-	1.210	-	-	1.290	-	-	-	-	-	1.290
CMWS Program Management	-	-	24.758	-	-	3.530	-	-	2.810	-	-	2.845	-	-	-	-	-	2.845
CMWS Systems Test and Evaluation	-	-	78.443	-	-	4.323	-	-	5.000	-	-	3.869	-	-	-	-	-	3.869
JUONS SO-0010 A-Kit Procurement	432.174	69	29.820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUONS SO-0010 A-Kit Installation	376.406	69	25.972	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUONS SO-0010 B-Kit Procurement	2,824.200	45	127.089	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 5397AZ3517 / CMWS	Item Number / Title [DODIC]: AZ3517 / CMWS
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
JUONS SO-0010 Systems Engineering	-	-	9.571	-	-	1.237	-	-	2.050	-	-	2.160	-	-	-	-	-	2.160
JUONS SO-0010 Program Management	-	-	8.002	-	-	0.979	-	-	1.840	-	-	1.890	-	-	-	-	-	1.890
JUONS SO-0010 Systems Test & Evaluation	-	-	12.538	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUONS SO-0010 Fielding/FSR Support/ Depot/Demod	-	-	49.454	-	-	14.534	-	-	17.118	-	-	23.390	-	-	-	-	-	23.390
JUONS SO-0010 Software/Engineering Support	-	-	7.763	-	-	5.100	-	-	8.600	-	-	5.260	-	-	-	-	-	5.260
Phase 3 ATW/ CIRCM QRC B-Kit Procurement(†)	1,015.344	64	64.982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CIRCM QRC Systems Engineering	-	-	6.704	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CIRCM QRC Program Management	-	-	6.614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CIRCM QRC A-Kit Installation	157.839	155	24.465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CIRCM QRC ST&E	-	-	5.920	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phase 4 LIMWS A-Kit Procurement and Install(†)	73.784	287	21.176	290.688	80	23.255	-	-	4.494	-	-	3.747	-	-	-	-	-	3.747
LIMWS Systems Engineering Program Management	-	-	18.381	-	-	12.590	-	-	11.980	-	-	11.642	-	-	-	-	-	11.642
Phase 4 LIMWS QRC B-Kit Procurement(†)	541.661	236	127.832	626.090	100	62.609	626.090	100	62.609	-	-	-	-	-	-	-	-	-
LIMWS QRC Additional B-Kit Hardware (ALE-47)	-	-	5.459	-	-	5.197	-	-	1.747	-	-	-	-	-	-	-	-	-
CIRCM QRC A-Kit Procurement	378.650	60	22.719	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CIRCM Additional Hardware-I Generators	50.550	20	1.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIMWS Engineering Services	-	-	5.531	-	-	5.823	-	-	2.872	-	-	14.672	-	-	-	-	-	14.672
LIMWS Systems Test & Evaluation	-	-	-	-	-	-	-	-	-	-	-	9.097	-	-	-	-	-	9.097

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 5397AZ3517 / CMWS	Item Number / Title [DODIC]: AZ3517 / CMWS
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Subtotal: Recurring Cost	-	-	*1,097.182*	-	-	*141.891*	-	-	*128.046*	-	-	*85.474*	-	-	-	-	-	*85.474*
Non Recurring Cost																		
CMWS Other Modifications (5th Sensor and P3I)	-	-	5.805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CMWS Other Procurement	-	-	3.176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY 2019 Rapid Prototyping Fund	-	-	0.613	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	*9.594*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	**-**	**-**	***1,106.776***	**-**	**-**	***141.891***	**-**	**-**	***128.046***	**-**	**-**	***85.474***	**-**	**-**	**-**	**-**	**-**	***85.474***
Logistics Cost																		
Recurring Cost																		
CIRCM ICS-CLS	-	-	8.060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUONS FIeldimg and ICS-CLS	-	-	3.108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIMWS ICS-CLS	-	-	15.607	-	-	15.823	-	-	11.190	-	-	17.280	-	-	-	-	-	17.280
LIMWS Fielding	-	-	-	-	-	-	-	-	6.316	-	-	4.135	-	-	-	-	-	4.135
Subtotal: Recurring Cost	-	-	*26.775*	-	-	*15.823*	-	-	*17.506*	-	-	*21.415*	-	-	-	-	-	*21.415*
Non Recurring Cost																		
LIMWS Training/ Equipment	-	-	-	-	-	-	-	-	2.998	-	-	0.223	-	-	-	-	-	0.223
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	*2.998*	-	-	*0.223*	-	-	-	-	-	*0.223*
Subtotal: Logistics Cost	**-**	**-**	***26.775***	**-**	**-**	***15.823***	**-**	**-**	***20.504***	**-**	**-**	***21.638***	**-**	**-**	**-**	**-**	**-**	***21.638***
Support - Fielding Cost																		
Fielding	-	-	33.023	-	-	2.015	-	-	0.020	-	-	-	-	-	-	-	-	-
Subtotal: Support - Fielding Cost	**-**	**-**	***33.023***	**-**	**-**	***2.015***	**-**	**-**	***0.020***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Support - Training Cost																		
Equipment	-	-	8.403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Training Cost	**-**	**-**	***8.403***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Gross/Weapon System Cost	**7,679.588**	**153**	**1,174.977**	**1,597.290**	**100**	**159.729**	**-**	**-**	**148.570**	**-**	**-**	**107.112**	**-**	**-**	**-**	**-**	**-**	**107.112**

Remarks:

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 5397AZ3517 / CMWS	Item Number / Title [DODIC]: AZ3517 / CMWS
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

LIMWS A-Kits: Production of 201 A-Kits procured in first quarter FY 2020. FY 2021 LIMWS OCO APA funds procurement of 80 A-Kits for multiple platform variants. FY22 LIMWS funding for A-Kit installs only.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	100	-	-	-	-
	Total Obligation Authority	159.729	148.570	107.112	-	107.112
Total: Secondary Distribution	**Quantity**	**100**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**159.729**	**148.570**	**107.112**	**-**	**107.112**

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 5397AZ3517 / CMWS	Item Number / Title [DODIC]: AZ3517 / CMWS

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Phase 3 ATW/CIRCM QRC B-Kit Procurement	✓	2018	Northrop Grumman / Rolling Meadows, IL	SS / FFP	AMCOM Contracting Command, RSA	Dec 2017	Dec 2018	64	1,015.344	N		
Phase 4 LIMWS A-Kit Procurement and Install	✓	2019	BAE Systems / Nashua, NH	C / FFP	AMCOM Contracting Command, RSA	Nov 2018	Aug 2019	86	78.047	N		
Phase 4 LIMWS A-Kit Procurement and Install	✓	2020	BAE Systems / Nashua, NH	C / FFP	AMCOM Contracting Command, RSA	Oct 2019	Apr 2020	201	71.960	N		
Phase 4 LIMWS A-Kit Procurement and Install	✓	2021	Tyonek / Huntsville, AL	C / FFP	AMCOM Contracting Command, RSA	Jan 2021	Jul 2021	80	290.688	N		
Phase 4 LIMWS QRC B-Kit Procurement	✓	2018	BAE Systems / Nashua, NH	C / FFP	AMCOM Contracting Command, RSA	May 2018	Sep 2019	36	626.090	N		
Phase 4 LIMWS QRC B-Kit Procurement	✓	2019	BAE Systems / Nashua, NH	C / FFP	AMCOM Contracting Command, RSA	Mar 2020	Feb 2021	100	626.090	N		
Phase 4 LIMWS QRC B-Kit Procurement	✓	2020	BAE Systems / Nashua, NH	C / FFP	AMCOM Contracting Command, RSA	Jan 2020	Dec 2021	100	626.090	N		
Phase 4 LIMWS QRC B-Kit Procurement	✓	2021	BAE Systems / Nashua, NH	C / FFP	AMCOM Contracting Command, RSA	Jan 2021	Oct 2022	100	626.090	N		
Phase 4 LIMWS QRC B-Kit Procurement		2022	BAE Systems / Nashua, NH	C / FFP	AMCOM Contracting Command, RSA	Sep 2022	Aug 2023	100	626.090	N		

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	**P-1 Line Item Number / Title:** 5399AZ3537 / Common Infrared Countermeasures (CIRCM)

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: 446

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	235	120	110	125	-	125	125	125	125	125	700	1,790
Gross/Weapon System Cost *($ in Millions)*	428.075	266.517	234.012	288.209	-	288.209	302.250	259.183	243.472	242.568	2,075.106	4,339.392
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	428.075	266.517	234.012	288.209	-	288.209	302.250	259.183	243.472	242.568	2,075.106	4,339.392
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**428.075**	**266.517**	**234.012**	**288.209**	**-**	**288.209**	**302.250**	**259.183**	**243.472**	**242.568**	**2,075.106**	**4,339.392**
(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)*	1,821.596	2,220.975	2,127.382	2,305.672	-	2,305.672	2,418.000	2,073.464	1,947.776	1,940.544	2,964.437	2,424.241

Description:

This funding line is a key enabler of the Army Modernization Priorities in support of Future Vertical Lift (FVL) Future Aerial Reconnaissance Aircraft (FARA) and Future Long-Range Assault Aircraft (FLRAA) platforms.

Army Procurement Objective (APO) = 1,781 (B-Kits only)
The (Common Infrared Countermeasures) CIRCM budget line includes 1) CIRCM (AZ3537), 2) funding to counter emerging technology as identified in Joint Urgent Operational Needs Statement (JUONS) SO-0010 Phase 2a and the Headquarters Department of the Army (HQDA) Directed Requirement for the CIRCM Quick Reaction Capability (QRC), 3) funding to support HQDA Directed Requirement for the Phase 3 Advanced Threat Warning(ATW)/CIRCM QRC.

CIRCM (AZ3537)
CIRCM is the next generation lightweight, laser-based Infrared Countermeasure (IRCM) component that will interface with both the Army's Common Missile Warning System (CMWS) and future Missile Warning Systems (MWS) to defeat current and emerging missile threats that use multispectral technology for rotary-wing, tilt-rotor and small fixed-wing aircraft across the DoD. CIRCM receives an angular bearing hand-off from the MWS, employs a pointing and tracking system which acquires the handed-over threat and tracks the incoming missile during and after motor burnout. CIRCM jams the missile by using modulated laser energy in the missile seeker band, thus degrading the tracking capability of the missile and causing it to miss the aircraft. CIRCM is utilizing Open Systems Architecture which allows flexibility with software and hardware refreshes to keep pace with future threats. CIRCM is part of the suite of ASE Mission Equipment for the FVL platform.

The CIRCM A-Kit includes mounting hardware, wiring harnesses, and other components necessary to install and interface the mission kit on host aircraft. The A-Kit ensures the mission kit is functionally and physically operational with a specific host aircraft type. The CIRCM B-Kit is the mission kit (laser, pointer tracker, and controller) required to achieve near spherical coverage for an aircraft.

JUONS SO-0010 and CIRCM QRC
As a part of Phase 2a of the JUONS (SO-0010) program, the Army integrated the Department of the Navy Large Aircraft Infrared Countermeasure (DoN LAIRCM) system onto the Army and Special Operations Aircraft (SOA) platforms. Due to a number of challenges, circumstances, and variables, the Army updated the ATW/CIRCM QRC and Limited Interim Missile Warning System (LIMWS) Directed Requirements (dated November 16, 2018). The updated requirements extend the utilization of ATW DoN LAIRCM on conventional Army aircraft and cancel the need for the ATW/CIRCM QRC system for the conventional Army. (It should be noted that the updated requirement maintains the need for ATW/CIRCM on SOA platforms. Sustainment of ATW on Special Operations Aircraft will transfer to the SOA budget line in FY23).

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	**P-1 Line Item Number / Title:** 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	
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: 446		

As a result, the Army did not acquire the ATW sensors for use in Phase 3 of the JUONS effort. Instead, the Army accelerated the procurement of the CIRCM QRC systems for use with the currently fielded CMWS in preparation for transition to the LIMWS system.

CIRCM MS C was approved September 14, 2018, the LRIP and Engineering Support options were exercised and the program entered the Production and Deployment phase with First Unit Equipped (FUE) achieved in the second quarter of FY 2020. During the MS C approval process, the CSA directed funding be increased beginning in FY 2020 to accelerate CIRCM production and to field one Combat Aviation Brigade (CAB) per year. Full Rate Production Decision was approved April 13, 2021 and a five year IDIQ contract was awarded to NGSC on April 30, 2021 for up to 596 B-Kits with options for Engineering Services, Repairs, and Contractor Logistic Support Services. The full rate production APB was approved July 2021 and the program plans to meet the Initial Operational Capability(IOC) threshold date of September 2022.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	120	110	125	-	125	125	125	125	125
	Total Obligation Authority	266.517	234.012	288.209	-	288.209	302.250	259.183	243.472	242.568
Total: Secondary Distribution	**Quantity**	**120**	**110**	**125**	**-**	**125**	**125**	**125**	**125**	**125**
	Total Obligation Authority	**266.517**	**234.012**	**288.209**	**-**	**288.209**	**302.250**	**259.183**	**243.472**	**242.568**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	**P-1 Line Item Number / Title:** 5399AZ3537 / Common Infrared Countermeasures (CIRCM)

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: 446

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-5	AZ3537 / Common Infrared Countermeasures (CIRCM)	P-5a, P-21			235 / 428.075	120 / 266.517	110 / 234.012	125 / 288.209	- / -	125 / 288.209
P-40	**Total Gross/Weapon System Cost**				**235 / 428.075**	**120 / 266.517**	**110 / 234.012**	**125 / 288.209**	**- / -**	**125 / 288.209**

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

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

Justification:
FY 2023 Base Procurement dollars for CIRCM Program of Record in the amount of $255.909 million will fund procurement of CIRCM hardware, integration, testing, software updates, jam code updates, Systems Engineering Program Management (SEPM), and fielding.

FY 2023 Base Procurement dollars for CIRCM QRC in the amount of $32.300 million for direct combat support expenses for Operation Inherent Resolve will fund Contractor Field Support Representatives, Repair, Contractor Logistics Support, Software Maintenance, and Systems Engineering for fielded units.

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.

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	Item Number / Title [DODIC]: AZ3537 / Common Infrared Countermeasures (CIRCM)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	235	120	110	125	-	125
Gross/Weapon System Cost *($ in Millions)*	428.075	266.517	234.012	288.209	-	288.209
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	428.075	266.517	234.012	288.209	-	288.209
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**428.075**	**266.517**	**234.012**	**288.209**	**-**	**288.209**
(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)*	1,821.596	2,220.975	2,127.382	2,305.672	-	2,305.672

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
CIRCM A-Kit Manufacturing/ Installation(†)	71.859	205	14.731	60.556	196	11.869	115.268	157	18.097	144.178	185	26.673	-	-	-	144.178	185	26.673
CIRCM B-Kit Manufacturing(†)	1,076.664	149	160.423	1,196.833	120	143.620	976.536	110	107.419	1,316.576	125	164.572	-	-	-	1,316.576	125	164.572
Other Recurring Production	-	-	22.927	-	-	20.199	-	-	8.181	-	-	10.122	-	-	-	-	-	10.122
Phase 3 CIRCM QRC B-Kit Manufacturing(†)	1,251.159	107	133.874	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CIRCM QRC A-Kit Manufacturing/Installs	-	-	9.465	-	-	13.960	-	-	-	-	-	3.700	-	-	-	-	-	3.700
B-Kit Manufacturing to Support Phase 4 LIMWS QRC(†)	1,271.000	9	11.439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CIRCM QRC SEPM	-	-	11.569	-	-	9.760	-	-	4.183	-	-	7.860	-	-	-	-	-	7.860
CIRCM QRC Testing	-	-	2.049	-	-	1.330	-	-	4.785	-	-	11.750	-	-	-	-	-	11.750
CIRCM QRC Training	-	-	5.693	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CIRCM QRC Fielding	-	-	10.126	-	-	5.910	-	-	11.879	-	-	9.390	-	-	-	-	-	9.390
CIRCM QRC Software	-	-	1.000	-	-	-	-	-	2.458	-	-	-	-	-	-	-	-	-
CIRCM QRC Rapid Prototyping Fund	-	-	0.033	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	Item Number / Title [DODIC]: AZ3537 / Common Infrared Countermeasures (CIRCM)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
CIRCM QRC Engineering Changes	-	-	-	-	-	1.440	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	*383.329*	-	-	*208.088*	-	-	*157.002*	-	-	*234.067*	-	-	-	-	-	*234.067*
Non Recurring Cost																		
Depot Stand-up	-	-	0.350	-	-	1.490	-	-	6.431	-	-	9.080	-	-	-	-	-	9.080
CIRCM QRC Retrofit	-	-	-	-	-	-	465.167	30	13.955	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	*0.350*	-	-	*1.490*	-	-	*20.386*	-	-	*9.080*	-	-	-	-	-	*9.080*
Subtotal: Flyaway Cost	**-**	**-**	***383.679***	**-**	**-**	***209.578***	**-**	**-**	***177.388***	**-**	**-**	***243.147***	**-**	**-**	**-**	**-**	**-**	***243.147***
Software Cost																		
Recurring Cost																		
Jam Code Updates/ Software Support	-	-	9.433	-	-	6.716	-	-	2.097	-	-	2.135	-	-	-	-	-	2.135
Cyber Security	-	-	3.299	-	-	4.548	-	-	1.080	-	-	1.501	-	-	-	-	-	1.501
Subtotal: Recurring Cost	-	-	*12.732*	-	-	*11.264*	-	-	*3.177*	-	-	*3.636*	-	-	-	-	-	*3.636*
Subtotal: Software Cost	**-**	**-**	***12.732***	**-**	**-**	***11.264***	**-**	**-**	***3.177***	**-**	**-**	***3.636***	**-**	**-**	**-**	**-**	**-**	***3.636***
Support - Data Cost																		
Technical Publications	-	-	0.463	-	-	-	-	-	0.255	-	-	0.260	-	-	-	-	-	0.260
Subtotal: Support - Data Cost	**-**	**-**	***0.463***	**-**	**-**	**-**	**-**	**-**	***0.255***	**-**	**-**	***0.260***	**-**	**-**	**-**	**-**	**-**	***0.260***
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	-	-	-	1.323	-	-	0.336	-	-	-	-	-	0.336
Subtotal: Support - Engineering Change Proposals Cost	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	***1.323***	**-**	**-**	***0.336***	**-**	**-**	**-**	**-**	**-**	***0.336***
Support - Fielding Cost																		
Fielding	-	-	16.337	-	-	24.791	-	-	20.329	-	-	10.296	-	-	-	-	-	10.296
Subtotal: Support - Fielding Cost	**-**	**-**	***16.337***	**-**	**-**	***24.791***	**-**	**-**	***20.329***	**-**	**-**	***10.296***	**-**	**-**	**-**	**-**	**-**	***10.296***
Support - System Engineering Cost																		
System Engineering	-	-	12.147	-	-	15.372	-	-	17.253	-	-	19.786	-	-	-	-	-	19.786
Subtotal: Support - System Engineering Cost	**-**	**-**	***12.147***	**-**	**-**	***15.372***	**-**	**-**	***17.253***	**-**	**-**	***19.786***	**-**	**-**	**-**	**-**	**-**	***19.786***
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	-	-	-	5.512	-	-	6.092	-	-	6.208	-	-	-	-	-	6.208

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	**Item Number / Title [DODIC]:** AZ3537 / Common Infrared Countermeasures (CIRCM)

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Subtotal: Support - System Test and Evaluation Cost	**-**	**-**	**-**	**-**	**-**	***5.512***	**-**	**-**	***6.092***	**-**	**-**	***6.208***	**-**	**-**	**-**	**-**	**-**	***6.208***
Support - Training Cost																		
Services	-	-	2.717	-	-	-	-	-	8.195	-	-	4.540	-	-	-	-	-	4.540
Subtotal: Support - Training Cost	**-**	**-**	***2.717***	**-**	**-**	**-**	**-**	**-**	***8.195***	**-**	**-**	***4.540***	**-**	**-**	**-**	**-**	**-**	***4.540***
Gross/Weapon System Cost	**1,821.596**	**235**	**428.075**	**2,220.975**	**120**	**266.517**	**2,127.382**	**110**	**234.012**	**2,305.672**	**125**	**288.209**	**-**	**-**	**-**	**2,305.672**	**125**	**288.209**

Remarks:
Other Recurring Production includes CIRCM Obsolescence

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	120	110	125	-	125
	Total Obligation Authority	266.517	234.012	288.209	-	288.209
Total: Secondary Distribution	**Quantity**	**120**	**110**	**125**	**-**	**125**
	Total Obligation Authority	**266.517**	**234.012**	**288.209**	**-**	**288.209**

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	Item Number / Title [DODIC]: AZ3537 / Common Infrared Countermeasures (CIRCM)

Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
CIRCM A-Kit Manufacturing/ Installation(†)		2018	Logistics Support Facility (LSF) / Army Aviation Field Maintenance Facility (AFMD) / Redtone Arsenal	C / FPIF	HQ ACC, Redstone Arsenal, AL	Sep 2018	Jul 2019	24	0.000	Y		
CIRCM A-Kit Manufacturing/ Installation(†)		2019	Logistics Support Facility (LSF) / Army Aviation Field Maintenance Facility (AFMD) / Redtone Arsenal	MIPR	HQ ACC, Redstone Arsenal, AL	Apr 2019	Aug 2019	81	61.914	N		
CIRCM A-Kit Manufacturing/ Installation(†)		2020	Logistics Support Facility (LSF) / Army Aviation Field Maintenance Facility (AFMD) / Redtone Arsenal	MIPR	HQ ACC, Redstone Arsenal, AL	Jan 2020	May 2020	100	72.810	N		
CIRCM A-Kit Manufacturing/ Installation(†)		2021	Logistics Support Facility (LSF) / Army Aviation Field Maintenance Facility (AFMD) / Redtone Arsenal	MIPR	HQ ACC, Redstone Arsenal, AL	Jan 2021	May 2021	196	60.556	N		
CIRCM A-Kit Manufacturing/ Installation(†)		2022	Logistics Support Facility (LSF) / Army Aviation Field Maintenance Facility (AFMD) / Redtone Arsenal	MIPR	HQ ACC, Redstone Arsenal, AL	Jan 2022	May 2022	157	115.268	N		
CIRCM A-Kit Manufacturing/ Installation(†)		2023	Logistics Support Facility (LSF) / Army Aviation Field Maintenance Facility (AFMD) / Redtone Arsenal	MIPR	HQ ACC, Redstone Arsenal, AL	Jan 2023	Jun 2023	185	144.178	N		
CIRCM B-Kit Manufacturing(†)		2018	Northrop Grumman Systems Corp / Rolling Meadows	C / FFP	HQ ACC, Redstone Arsenal, AL	Jul 2019	Dec 2020	24	1,287.500	N		
CIRCM B-Kit Manufacturing(†)		2019	Northrop Grumman Systems Corp / Rolling Meadows	Option / FPIF	HQ ACC, Redstone Arsenal, AL	Dec 2018	Oct 2019	24	481.083	N		
CIRCM B-Kit Manufacturing(†)		2020	Northrop Grumman Systems Corp / Rolling Meadows	C / FFP	HQ ACC, Redstone Arsenal, AL	Jan 2020	Jun 2021	101	1,168.089	N		
CIRCM B-Kit Manufacturing(†)		2021	Northrop Grumman Systems Corp / Rolling Meadows	C / FFP	HQ ACC, Redstone Arsenal, AL	Nov 2020	May 2022	120	1,196.833	N		
CIRCM B-Kit Manufacturing(†)		2022	Northrop Grumman Systems Corp / Rolling Meadows	C / FFP	HQ ACC, Redstone Arsenal, AL	Nov 2021	May 2023	110	976.536	N		
CIRCM B-Kit Manufacturing(†)		2023	Northrop Grumman Systems Corp / Rolling Meadows	C / FFP	HQ ACC, Redstone Arsenal, AL	Mar 2023	Nov 2024	125	1,316.576	N		
Phase 3 CIRCM QRC B-Kit Manufacturing	✓	2017	Northrop Grumman Systems Corp / Rolling Meadows	C / FFP	HQ ACC, Redstone Arsenal, AL	Sep 2018	Nov 2019	77	1,200.170	N		
Phase 3 CIRCM QRC B-Kit Manufacturing	✓	2018	Northrop Grumman Systems Corp / Rolling Meadows	C / FFP	HQ ACC, Redstone Arsenal, AL	Jul 2019	Jan 2021	30	1,382.033	N		
B-Kit Manufacturing to Support Phase 4 LIMWS QRC	✓	2019	Northrop Grumman Systems Corp / Rolling Meadows	C / FFP	HQ ACC, Redstone Arsenal, AL	Jul 2019	Dec 2020	9	1,271.000	N		

(†) indicates the presence of a P-21

Remarks:

Exhibit P-5a, Procurement History and Planning: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	**Item Number / Title [DODIC]:** AZ3537 / Common Infrared Countermeasures (CIRCM)

FY18 - LRIP 3 (DO 01) Qty = 24
FY19 - LRIP 2 Qty = 24
FY20 - LRIP 3 (DO 02) Qty = 101
FY21 - FRP Qty = 120
FY22 - FRP Qty = 110
FY23 - FRP Qty = 125

FY17 - QRC 2 Qty = 77
FY18 - QRC 3 Qty = 30
FY19 - LIMWS QRC Qty = 9

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	**Item Number / Title [DODIC]:** AZ3537 / Common Infrared Countermeasures (CIRCM)

Cost Elements (Units in Each)							Fiscal Year 2018												Fiscal Year 2019												BALANCE
							Calendar Year 2018												Calendar Year 2019												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CIRCM A-Kit Manufacturing/Installation																															
	1	2018	ARMY	24	0	24												A -	-	-	-	-	-	-	-	-	-	12	12		0
	1	2019	ARMY	81	0	81																			A -	-	-	-	15	15	51
	1	2020	ARMY	100	0	100																									100
	1	2021	ARMY	196	0	196																									196
	1	2022	ARMY	157	0	157																									157
	1	2023	ARMY	185	0	185																									185
CIRCM B-Kit Manufacturing																															
	2	2018	ARMY	24	0	24																						A -	-	-	24
	2	2019	ARMY	24	0	24															A -	-	-	-	-	-	-	-	-	-	24
	2	2020	ARMY	101	0	101																									101
	2	2021	ARMY	120	0	120																									120
	2	2022	ARMY	110	0	110																									110
	2	2023	ARMY	125	0	125																									125
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	**Item Number / Title [DODIC]:** AZ3537 / Common Infrared Countermeasures (CIRCM)

Cost Elements (Units in Each)							Fiscal Year 2020												Fiscal Year 2021												BALANCE
							Calendar Year 2020												Calendar Year 2021												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CIRCM A-Kit Manufacturing/Installation																															
	1	2018	ARMY	24	24	0																									0
	1	2019	ARMY	81	30	51	15	15	21																						0
	1	2020	ARMY	100	0	100				A -	-	-	-	15	15	15	15	15	15	10											0
	1	2021	ARMY	196	0	196																A -	-	-	-	15	15	15	15	15	121
	1	2022	ARMY	157	0	157																									157
	1	2023	ARMY	185	0	185																									185
CIRCM B-Kit Manufacturing																															
	2	2018	ARMY	24	0	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	8	9								0
	2	2019	ARMY	24	0	24	11	1	-	-	-	5	7																		0
	2	2020	ARMY	101	0	101				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9	9	9	69
	2	2021	ARMY	120	0	120														A -	-	-	-	-	-	-	-	-	-	-	120
	2	2022	ARMY	110	0	110																									110
	2	2023	ARMY	125	0	125																									125
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	**Item Number / Title [DODIC]:** AZ3537 / Common Infrared Countermeasures (CIRCM)

Cost Elements (Units in Each)							Fiscal Year 2022												Fiscal Year 2023												BALANCE
							Calendar Year 2022												Calendar Year 2023												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CIRCM A-Kit Manufacturing/Installation																															
	1	2018	ARMY	24	24	0																									0
	1	2019	ARMY	81	81	0																									0
	1	2020	ARMY	100	100	0																									0
	1	2021	ARMY	196	75	121	15	15	15	15	15	15	15	16																	0
	1	2022	ARMY	157	0	157				A -	-	-	-	15	15	15	15	15	15	15	15	15	15	7							0
	1	2023	ARMY	185	0	185																A -	-	-	-	-	14	14	14	14	129
CIRCM B-Kit Manufacturing																															
	2	2018	ARMY	24	24	0																									0
	2	2019	ARMY	24	24	0																									0
	2	2020	ARMY	101	32	69	9	9	9	9	9	9	9	6																	0
	2	2021	ARMY	120	0	120	-	-	-	-	-	-	-	3	10	10	10	10	10	10	10	10	10	10	10	7					0
	2	2022	ARMY	110	0	110		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	10	10	10	10	67
	2	2023	ARMY	125	0	125																		A -	-	-	-	-	-	-	125
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	**Item Number / Title [DODIC]:** AZ3537 / Common Infrared Countermeasures (CIRCM)

Cost Elements (Units in Each)							Fiscal Year 2024												Fiscal Year 2025												BALANCE
										Calendar Year 2024												Calendar Year 2025									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CIRCM A-Kit Manufacturing/Installation																															
	1	2018	ARMY	24	24	0																									0
	1	2019	ARMY	81	81	0																									0
	1	2020	ARMY	100	100	0																									0
	1	2021	ARMY	196	196	0																									0
	1	2022	ARMY	157	157	0																									0
	1	2023	ARMY	185	56	129	14	14	14	14	14	14	14	14	14	3															0
CIRCM B-Kit Manufacturing																															
	2	2018	ARMY	24	24	0																									0
	2	2019	ARMY	24	24	0																									0
	2	2020	ARMY	101	101	0																									0
	2	2021	ARMY	120	120	0																									0
	2	2022	ARMY	110	43	67	10	10	10	10	10	10	7																		0
	2	2023	ARMY	125	0	125	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	15
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	**Item Number / Title [DODIC]:** AZ3537 / Common Infrared Countermeasures (CIRCM)

Cost Elements (Units in Each)							Fiscal Year 2026												Fiscal Year 2027												BALANCE
										Calendar Year 2026												Calendar Year 2027									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
CIRCM A-Kit Manufacturing/Installation																															
	1	2018	ARMY	24	24	0																									0
	1	2019	ARMY	81	81	0																									0
	1	2020	ARMY	100	100	0																									0
	1	2021	ARMY	196	196	0																									0
	1	2022	ARMY	157	157	0																									0
	1	2023	ARMY	185	185	0																									0
CIRCM B-Kit Manufacturing																															
	2	2018	ARMY	24	24	0																									0
	2	2019	ARMY	24	24	0																									0
	2	2020	ARMY	101	101	0																									0
	2	2021	ARMY	120	120	0																									0
	2	2022	ARMY	110	110	0																									0
	2	2023	ARMY	125	110	15	10	5																							0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2023 Army		**Date:** April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	**P-1 Line Item Number / Title:** 5399AZ3537 / Common Infrared Countermeasures (CIRCM)	**Item Number / Title [DODIC]:** AZ3537 / Common Infrared Countermeasures (CIRCM)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
					Initial				Reorder			
		MSR For 2023	1-8-5 For 2023	MAX For 2023	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	Logistics Support Facility (LSF) / Army Aviation Field Maintenance Facility (AFMD) - Redtone Arsenal	10	15	20	0	0	4	4	0	0	4	4
2	Northrop Grumman Systems Corp - Rolling Meadows	7	11	15	0	0	14	14	0	0	14	14

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

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	**P-1 Line Item Number / Title:** 0832AZ3000 / Avionics Support Equipment

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	542.406	1.789	-	-	-	-	-	-	-	-	-	544.195
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	542.406	1.789	-	-	-	-	-	-	-	-	-	544.195
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**542.406**	**1.789**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**544.195**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Aviator's Night Vision Imaging System (ANVIS), supports the Army's objectives by permitting superior tactical mobility of rotary wing aircraft during darkness and low light conditions. ANVIS also supports Fixed Wing Lift permitting loading/unloading and flight during darkness and low light conditions. ANVIS is a binocular, helmet-mounted system for Aviation crew members. ANVIS is a night vision goggle that significantly expands the input dynamic range to support operations in conditions that vary from below starlight illumination levels through strong urban lighting situations. The increased capability of ANVIS yields enhanced mission performance and improved safety of flight, compared to what is now possible using previous ANVIS systems. ANVIS enhances the survivability, lethality, and tactical mobility for aviators.

The Army Acquisition Objective (AAO) for this program is 16,902.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.789	-	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**1.789**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Justification:
There is no FY2023 funding for this program.

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 mission, domestic emergency responses, and providing military support of civil authorities.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	**P-1 Line Item Number / Title:** 5212AZ3100 / Common Ground Equipment

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603801A, 0605830A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,328.912	17.584	13.561	20.823	-	20.823	16.317	13.110	16.287	16.223	-	1,442.817
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,328.912	17.584	13.561	20.823	-	20.823	16.317	13.110	16.287	16.223	-	1,442.817
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,328.912**	**17.584**	**13.561**	**20.823**	**-**	**20.823**	**16.317**	**13.110**	**16.287**	**16.223**	**-**	**1,442.817**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Aviation Ground Support Equipment (AGSE) acquires, fields, and modernizes aviation support equipment within cost, schedule, and performance parameters, allowing Army Aviation Soldiers to carry out peacetime and wartime missions. AGSE provides life cycle systems management for Aviation Ground Power Unit 1.0 (AGPU 1.0) and its next generation systems (AGPU 1.1), Aircraft Cleaning and Deicing System (ACDS), Flexible Engine Diagnostic Systems (FEDS), Aircraft Jacks, Aviation Central Tool Management (ACTM), Aviation Light Utility Mobile Maintenance Cart (ALUMMC), Modernized Maintenance Stands (MMS), Common Aviation Tool System (CATS), Self-propelled Crane Aircraft Maintenance and Positioning Increment II (SCAMP II) - (Expeditionary Variant), Unit Maintenance Aerial Recovery Kit (UMARK), Non-Destructive Test Equipment (NDTE), Tool Set, Aviation Unit Maintenance (TS, AUM), Pitot Static Test Set (PSTS), and procurement of support equipment required for maintenance of the enduring fleet and Future Vertical Lift (FVL) force aircraft.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.276	7.809	13.581	-	13.581	10.878	10.377	10.918	11.915
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.308	4.765	7.242	-	7.242	5.439	2.733	5.369	4.308
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.987	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**17.584**	**13.561**	**20.823**	**-**	**20.823**	**16.317**	**13.110**	**16.287**	**16.223**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	**P-1 Line Item Number / Title:** 5212AZ3100 / Common Ground Equipment

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603801A, 0605830A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-5	AZ3520 / AVIATION GROUND SUPPORT EQUIPMENT				- / 1,328.912	- / 17.584	- / 13.561	- / 20.823	- / -	- / 20.823
P-40	**Total Gross/Weapon System Cost**				**- / 1,328.912**	**- / 17.584**	**- / 13.561**	**- / 20.823**	**- / -**	**- / 20.823**

*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:
FY21 Due to Basis of Issue Plan (BOIP) decrease, 229 PSTS MWOs were procured and fielded, in addition funds were realigned to SCAMP TM Revision.

FY23 Base procurement dollars in the amount $20.078 million procures 23 AGPU 1.1 next generation systems.

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

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	**P-1 Line Item Number / Title:** 5212AZ3100 / Common Ground Equipment	**Item Number / Title [DODIC]:** AZ3520 / AVIATION GROUND SUPPORT EQUIPMENT
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,328.912	17.584	13.561	20.823	-	20.823
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,328.912	17.584	13.561	20.823	-	20.823
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,328.912**	**17.584**	**13.561**	**20.823**	**-**	**20.823**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)						
Initial Spares *($ in Millions)*	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	3,722.443	76.786	90.407	905.348	-	905.348

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
Aviation Ground Power Unit 1.1 (AGPU 1.1)	-	-	-	-	-	-	-	-	-	905.348	23	20.823	-	-	-	905.348	23	20.823
Aviation Ground Power Unit 1.0 (AGPU 1.0)	124.499	8,246	1,026.619	-	-	1.360	-	-	-	-	-	-	-	-	-	-	-	-
Avn Light Utility Mobile Maint	43.671	1,100	48.038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modernized Maintenance Stands	-	-	5.827	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Common Aviation Tool System	2.836	19,889	56.405	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flexible Engine Diagnostics Sys	18,368.400	5	91.842	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCAMP II Expeditionary Type 2	194.700	110	21.417	-	-	0.164	-	-	-	-	-	-	-	-	-	-	-	-
Unit Maint Aerial Recovery Kit	-	-	14.584	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Destructive Test Equipment	486.484	62	30.162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tool Set, Aviation Unit Maintenance	-	-	1.879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pitot Static Test Set	163.060	183	29.840	-	-	16.060	-	-	13.561	-	-	-	-	-	-	-	-	-

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	**P-1 Line Item Number / Title:** 5212AZ3100 / Common Ground Equipment	**Item Number / Title [DODIC]:** AZ3520 / AVIATION GROUND SUPPORT EQUIPMENT
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Subtotal: Recurring Cost	-	-	*1,326.613*	-	-	*17.584*	-	-	*13.561*	-	-	*20.823*	-	-	-	-	-	*20.823*
Subtotal: Flyaway Cost	**-**	**-**	***1,326.613***	**-**	**-**	***17.584***	**-**	**-**	***13.561***	**-**	**-**	***20.823***	**-**	**-**	**-**	**-**	**-**	***20.823***
Support - Program Management Cost																		
Government Management	-	-	2.307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Program Management Cost	**-**	**-**	***2.307***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Gross/Weapon System Cost	**3,722.443**	**-**	**1,328.912**	**76.786**	**-**	**17.584**	**90.407**	**-**	**13.561**	**905.348**	**-**	**20.823**	**-**	**-**	**-**	**905.348**	**-**	**20.823**

Remarks:
Procurement funding of $4.0M in FY22 is realigned from PSTS to AGPU 1.1 to fund the acquisition of five (5) Low Rate Initial Production systems to support operational testing and logistics activities required to obtain type classification and materiel release.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	17.276	7.809	13.581	-	13.581
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	0.308	4.765	7.242	-	7.242
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	0.987	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**17.584**	**13.561**	**20.823**	**-**	**20.823**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	**P-1 Line Item Number / Title:** 6380AZ3110 / Aircrew Integrated Systems

ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0603827A, 0604601A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	939.945	49.293	41.425	25.773	-	25.773	24.938	9.126	14.080	14.089	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	939.945	49.293	41.425	25.773	-	25.773	24.938	9.126	14.080	14.089	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**939.945**	**49.293**	**41.425**	**25.773**	**-**	**25.773**	**24.938**	**9.126**	**14.080**	**14.089**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Aircrew Integrated Systems funds Air Soldier System (AirSS) Aviation Life Support Equipment efforts. The Air Soldier system provides Army rotary wing aircrews with protective mission and survival equipment. AirSS consists of Clothing and Individual Equipment and mission electronics integrated with the aircraft that enable the aircrew member to successfully perform the mission as well as protect, sustain, and assist in the safe return to friendly forces in the event of a downed aircraft scenario. AirSS is the phased replacement of the legacy Air Warrior (AW) system that addresses capability gaps while equipping Army aircrews with protective, survival and personal mission equipment, to include: Soldier-worn modernized mission electronics, end-user devices, and tools that improve aircrew Situational Awareness (SA); improved Soldier load through reductions in bulk and weight of body worn mission and survival gear; and, improved connectivity between the Soldier and the platform.

All of these continuing efforts are enablers that provide support for Multi-Domain Operations (MDO) to include targeted modernization of the enduring Aviation fleet. Recent and future efforts migrate from program/platform-unique hardware and software solutions to common integrated air/ground solutions that align with Network, Soldier Lethality, and Future Vertical Lift (FVL) modernization priorities. The program leverages complementary systems within the Army and other Services to deliver integrated, timely and cost effective capabilities.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	49.293	26.755	15.464	-	15.464	14.964	5.476	8.448	8.454
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	11.003	7.731	-	7.731	7.481	2.738	4.224	4.226
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.667	2.578	-	2.578	2.493	0.912	1.408	1.409
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**49.293**	**41.425**	**25.773**	**-**	**25.773**	**24.938**	**9.126**	**14.080**	**14.089**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	**P-1 Line Item Number / Title:** 6380AZ3110 / Aircrew Integrated Systems

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603827A, 0604601A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*	Quantity / Total Cost *(Each) I ($ M)*
P-5	AZ3110 / Aircrew Integrated Systems				- / 939.945	- / 49.293	- / 41.425	- / 25.773	- / -	- / 25.773
P-40	**Total Gross/Weapon System Cost**				**- / 939.945**	**- / 49.293**	**- / 41.425**	**- / 25.773**	**- / -**	**- / 25.773**

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

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

Justification:

FY 2023 Base procurement dollars in the amount of $21.178 million supports AirSS requirements, and continued production and fielding of AirSS capabilities. AirSS provides: improved flight helmets; an Aviation Information System (AIS) for aviators that displays digital moving map/situational awareness, Blue Force Tracking capability, and enhanced air/ground operations through Common Operating Environment (COE); improved lightweight body armor; improved personal survival equipment; a wider field of view Common Helmet Mounted Display (CHMD) including enhanced flight symbology for day/night operations on rotary wing aircraft; next generation flight survival vest, Aircrew Combat Equipment (ACE), provides further reductions in body-worn bulk and weight; and, end-user devices to replace paper DoD Flight Information Publications and aircraft publications and provide modernized SA and enables air/ground operations for aircrew members. These capabilities reduce Soldier load and enhance Situational Awareness, Safety, and Survivability. Funds also procure Air Soldier platform-mounted components necessary for airframe interface with the Air Soldier; and installation of airframe integration kits.

FY 2023 European Deterrence Initiative (EDI) dollars in the amount of $4.595 million support the procurement of Nett Warrior-Aviation (NW-A) end-user devices and/or Aircrew Equipment capability utilized in support of units' conducting ongoing EDI operations.

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	**P-1 Line Item Number / Title:** 6380AZ3110 / Aircrew Integrated Systems	**Item Number / Title [DODIC]:** AZ3110 / Aircrew Integrated Systems
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	939.945	49.293	41.425	25.773	-	25.773
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	939.945	49.293	41.425	25.773	-	25.773
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**939.945**	**49.293**	**41.425**	**25.773**	**-**	**25.773**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)						
Initial Spares *($ in Millions)*	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
Air SS Soldier Kits	4.510	10,270	46.317	4.999	2,142	10.708	5.983	1,378	8.245	4.202	1,441	6.055	-	-	-	4.202	1,441	6.055
Air SS Airframe Kits	123.439	993	122.575	218.573	110	24.043	220.333	90	19.830	155.622	82	12.761	-	-	-	155.622	82	12.761
Airframe Kit Install	-	-	15.159	-	-	6.178	-	-	4.896	-	-	1.100	-	-	-	-	-	1.100
Manual	-	-	14.700	-	-	-	-	-	0.168	-	-	0.101	-	-	-	-	-	0.101
New Equipment Training	-	-	6.164	-	-	0.170	-	-	0.175	-	-	0.106	-	-	-	-	-	0.106
Initial Spares	-	-	14.673	-	-	1.201	-	-	1.529	-	-	0.923	-	-	-	-	-	0.923
Support Equipment	-	-	9.994	-	-	0.256	-	-	0.275	-	-	0.166	-	-	-	-	-	0.166
Systems Test and Evaluation	-	-	16.989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonrecurring Engineering (NRE)	-	-	34.915	-	-	0.461	-	-	0.450	-	-	0.455	-	-	-	-	-	0.455
Engineering Changes	-	-	14.037	-	-	0.289	-	-	0.300	-	-	0.298	-	-	-	-	-	0.298
Systems Integration Engineering	-	-	8.605	-	-	0.383	-	-	0.378	-	-	0.380	-	-	-	-	-	0.380
Program Management & Matrix Support	-	-	42.914	-	-	3.002	-	-	3.062	-	-	2.150	-	-	-	-	-	2.150
Total Package Fielding	-	-	3.378	-	-	0.756	-	-	0.875	-	-	0.528	-	-	-	-	-	0.528
Contract Logistics Support	-	-	6.666	-	-	1.846	-	-	1.242	-	-	0.750	-	-	-	-	-	0.750
Air Warrior ECPs Supporting Air SS Rqmts	-	-	18.158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	P-1 Line Item Number / Title: 6380AZ3110 / Aircrew Integrated Systems	Item Number / Title [DODIC]: AZ3110 / Aircrew Integrated Systems
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Subtotal: Recurring Cost	-	-	*375.244*	-	-	*49.293*	-	-	*41.425*	-	-	*25.773*	-	-	-	-	-	*25.773*
Non Recurring Cost																		
Legacy/Air Wrrior Costs	-	-	564.701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	*564.701*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	**-**	**-**	***939.945***	**-**	**-**	***49.293***	**-**	**-**	***41.425***	**-**	**-**	***25.773***	**-**	**-**	**-**	**-**	**-**	***25.773***
Gross/Weapon System Cost	**-**	**-**	**939.945**	**-**	**-**	**49.293**	**-**	**-**	**41.425**	**-**	**-**	**25.773**	**-**	**-**	**-**	**-**	**-**	**25.773**

Remarks:

Unit Cost changes across the years reflect the different mix of subsystem components procured each year. The AirSS Airframe Kit subsystem component is a primary cost driver of the program and fluctuations in quantities in a fiscal year can substantially change the overall program Unit Cost. The AirSS Soldier Kit subsystem components, and associated platform installation costs, make up the other bulk of hardware procured under this program that can also change overall program Unit Cost based on quantities bought. The subsystem component quantities for each fiscal year are shown on the P-5 cost elements.

FY2022 to FY2023 Airframe and Soldier Kit subsystems unit cost increases due to addition of new components to Base system and contract pricing curves that adjust for inflation. Decreased funding results in not gaining pricing efficiencies due to smaller quantity of items being procured.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	49.293	26.755	15.464	-	15.464
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	-	11.003	7.731	-	7.731
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	-	3.667	2.578	-	2.578
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**49.293**	**41.425**	**25.773**	**-**	**25.773**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	**P-1 Line Item Number / Title:** 6818AA0050 / Air Traffic Control

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604633A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,700.392	26.408	21.759	27.492	-	27.492	21.633	11.619	11.696	11.649	-	1,832.648
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,700.392	26.408	21.759	27.492	-	27.492	21.633	11.619	11.696	11.649	-	1,832.648
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,700.392**	**26.408**	**21.759**	**27.492**	**-**	**27.492**	**21.633**	**11.619**	**11.696**	**11.649**	**-**	**1,832.648**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Tactical Airspace Integration System (TAIS) is the Army's program of record for Airspace Control (AC) and enroute Air Traffic Services (ATS). TAIS provides Airspace Management, planning, and dynamic execution capabilities at all echelons above Brigade, and enroute flight following air traffic services. TAIS is the only Army system with direct interface to the U.S. Air Force Air Operations Center (AOC) Weapon System for submission of the Army's requests for airspace from the Battlefield Coordination Detachment (BCD). Airspace Coordinating Measure Requests (ACMREQs) received from other mission command systems are passed to TAIS for approval or higher coordination. TAIS software supports U.S. Army commanders, airspace users, airspace managers, Army air traffic controllers, Joint organizations, and Unified Action Partners (UAP) by providing digitized, multi-echelon planning and execution of airspace management and Air Traffic Services. TAIS provides AC planning and enhanced AC execution; improved theater, intra-, and inter-Corps/Division Air Traffic Services (ATS) support; effective battlespace synchronization; and direct links to the Theater Air Ground System (TAGS) through interface with the automated airspace planning and communications systems of the Joint Force Air Component Commander (JFACC).

TAIS Common Operating Environment (COE) convergence to Integrated Mission Planning and Airspace Control Tools (IMPACT) will provide interoperability with Army Mission Command, Joint, and UAP systems. This will facilitate AC capabilities, enhance situational understanding, reduce risks, and provide more effective Air-Ground Integration to enable Multi-Domain Operations (MDO), Joint All Domain Operations (JADO), and Joint All Domain Command and Control (JADC2). IMPACT will be instantiated across Command Post Computing Environment (CE), Mounted CE, and Mobile/Handheld CE and will extend AC services to the tactical edge.

Funds in the Air Traffic Control (ATC) line support the acquisition of modernized Fixed-Base ATC systems that provide real time airspace management and control that will ensure safety of aircraft operations. These ATC systems are required to maintain compliance with civil, military, domestic, and international air traffic control and combat identification requirements in accordance with Federal Aviation Administration (FAA) mandates for systems operating within and transitioning through the National Airspace (NAS) System.

These airspace management systems allow for the Army to perform the unique operational requirements in and around the maneuver training areas and established Special Use Airspace (SUA), such as Controlled Firing Areas (CFAs) and Military Operations Areas (MOAs). These SUA areas support the following required operations: Parachute drops and Air-Assault insertions/extractions, Unmanned Aerial Systems (UAS) and Manned-Unmanned Teaming (MUMT) operations; Attack Helicopter direct fires and gunnery qualifications, Target Laser operations, Night Vision Devices (NVDs), Degraded Visual Environments (DVEs), aerial mine dispensing, flare/chaff and other Aircraft Survivability Equipment (ASE); external sling load and rappelling operations; and multi-ship formation flight, to name a few. The most valued capability that the Army has in controlling the required airspace is the ability to immediately answer the nation's call and to deploy required assets in response to natural disasters, medical evacuations (MEDEVACs), and to deploy assets for the deep strike engagement capability as part of the Multi-Domain Operations (MDOs)/Joint All-Domain Operations (JADO) and the Special Operations Aviation (SOA) assets, when required.

Exhibit P-40, Budget Line Item Justification: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	**P-1 Line Item Number / Title:** 6818AA0050 / Air Traffic Control	
ID Code (A=Service Ready, B=Not Service Ready):	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0604633A
Line Item MDAP/MAIS Code: N/A		

Efforts include the Fixed Base systems, of which are the DoD Advanced Automation System (DAAS), the Digital Airport Surveillance Radar (DASR), and other navigational control aids that include the Army Airfield Automation System (AAAS), Interim Voice Switch Replacement (IVSR), Doppler VHF Omnidirectional Range (DVOR) system, NAS Voice Recorder (NVR), Precision Approach Radar (PAR2020), and the Instrument Landing System (ILS) Program.

Fixed Base Air Traffic Control requirements will be met through the application of new technology solutions and pre planned product improvement (P3I) of these systems resulting in highly reliable and safe Air Traffic Control systems in accordance with the Joint DoD/FAA program to modernize the National Airspace and the FAA Next Gen program.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	26.408	21.759	27.492	-	27.492	21.633	11.619	11.696	11.649
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**26.408**	**21.759**	**27.492**	**-**	**27.492**	**21.633**	**11.619**	**11.696**	**11.649**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	**P-1 Line Item Number / Title:** 6818AA0050 / Air Traffic Control

ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604633A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)	Quantity / Total Cost (Each) I ($ M)
P-5	AA0050 / Air Traffic Control				- / 1,700.392	- / 26.408	- / 21.759	- / 27.492	- / -	- / 27.492
P-40	**Total Gross/Weapon System Cost**				**- / 1,700.392**	**- / 26.408**	**- / 21.759**	**- / 27.492**	**- / -**	**- / 27.492**

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

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

Justification:

FY 2023 Base procurement dollars in the amount of $6.997 million funds TAIS/IMPACT software production and deployment to meet COE Operational Needs in capability drops to enable MDO, JADO and JADC2. This is critical to enable Air-Ground Integration, enhance interoperability, and increase commonality with Army Mission Command, COE convergence, MDO, JADO, and JADC2. Aviation is a critical enabler for MDO & JADO; greater synchronization of airspace planning and dynamic execution by IMPACT will enable commanders to maximize airspace usage, increase freedom of maneuver, and enable seamless integration / deconfliction of fires and aviation operations in highly congested and complex environments. TAIS COE convergence to IMPACT is software-centric and hardware agnostic, thus eliminating the need for future hardware procurements.

FY 2023 Base procurement dollars in the amount of $7.178 million procures 7 DoD Advanced Automation System (DAAS) Generation 5 upgraded systems and the associated system site preparation and installation.

FY 2023 Base procurement dollars in the amount of $4.882 million procures 2 Digital Airport Surveillance Radar (DASR) systems and the associated system site preparation and installation.

FY 2023 Base procurement dollars in the amount of $3.337 million procures 103 Army Airfield Automation System (AAAS) software upgrades and Information Assurance and Vulnerability Assessment.

FY 2023 Base procurement dollars in the amount of $2.106 million procures 23 National Airspace System Voice Recorder (NVR) systems and the associated site preparation and installation.

FY 2023 Base procurement dollars in the amount of $2.991 million procures 1 Instrument Landing System (ILS) for the ILS Replacement Program and the associated site surveys, installation, and training.

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.

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	**P-1 Line Item Number / Title:** 6818AA0050 / Air Traffic Control	**Item Number / Title [DODIC]:** AA0050 / Air Traffic Control
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,700.392	26.408	21.759	27.492	-	27.492
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,700.392	26.408	21.759	27.492	-	27.492
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,700.392**	**26.408**	**21.759**	**27.492**	**-**	**27.492**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)						
Initial Spares *($ in Millions)*	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Flyaway Cost																		
Recurring Cost																		
Fixed Base Precision Approach Radar (FBPAR)	-	-	89.918	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DoD Advanced Automation System (DAAS)	-	-	122.049	-	-	5.112	-	-	8.551	-	-	7.178	-	-	-	-	-	7.178
Digital Airport Surveillance Radar(DASR)	-	-	85.843	-	-	1.682	-	-	-	-	-	4.883	-	-	-	-	-	4.883
Tactical Airspace Integration Sys (TAIS)	-	-	462.217	-	-	9.381	-	-	2.555	-	-	6.997	-	-	-	-	-	6.997
Air Traffic Navigation and Integration	-	-	450.272	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Navigational Control (AAAS, DVOR, NVS, NVR)	-	-	114.219	-	-	5.704	-	-	5.301	-	-	5.443	-	-	-	-	-	5.443
Tactical Terminal Control System (TTCS)	-	-	91.038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mobile Tower System (MOTS)	-	-	223.067	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATC Common Simulator (ACS)	-	-	51.523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precision Approach Radar (PAR) 2020	-	-	10.246	-	-	0.527	-	-	-	-	-	-	-	-	-	-	-	-

Exhibit P-5, Cost Analysis: PB 2023 Army		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	**P-1 Line Item Number / Title:** 6818AA0050 / Air Traffic Control	**Item Number / Title [DODIC]:** AA0050 / Air Traffic Control
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)	Unit Cost ($ K)	Qty (Each)	Total Cost ($ M)
Instrument Landing System (ILS)	-	-	-	-	-	4.002	-	-	5.352	-	-	2.991	-	-	-	-	-	2.991
Subtotal: Recurring Cost	-	-	*1,700.392*	-	-	*26.408*	-	-	*21.759*	-	-	*27.492*	-	-	-	-	-	*27.492*
Subtotal: Flyaway Cost	**-**	**-**	***1,700.392***	**-**	**-**	***26.408***	**-**	**-**	***21.759***	**-**	**-**	***27.492***	**-**	**-**	**-**	**-**	**-**	***27.492***
Gross/Weapon System Cost	**-**	**-**	**1,700.392**	**-**	**-**	**26.408**	**-**	**-**	**21.759**	**-**	**-**	**27.492**	**-**	**-**	**-**	**-**	**-**	**27.492**

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	26.408	21.759	27.492	-	27.492
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**26.408**	**21.759**	**27.492**	**-**	**27.492**

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	**P-1 Line Item Number / Title:** 9154A50100 / Launcher, 2.75 Rocket

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	100.331	2.256	-	1.275	-	1.275	-	-	-	-	-	103.862
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	100.331	2.256	-	1.275	-	1.275	-	-	-	-	-	103.862
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**100.331**	**2.256**	**-**	**1.275**	**-**	**1.275**	**-**	**-**	**-**	**-**	**-**	**103.862**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Aviation Rockets and Small Guided Munitions Product Office is the executive procurement agent for all services and Foreign Military customers for all variants of 2.75 Inch Hydra-70 Rocket Launchers. The M261 19-tube analog launcher and the M260 7-tube analog launcher are used to fire 2.75 Inch Hydra-70 Guided / Unguided Rockets from the following platforms: AH-64 Apache, H-60 Blackhawk, and Special Operations aircraft. The analog launchers are non-repairable, yet durable enough to withstand at least 16 rocket firings per tube before being discarded. The empty weight of the M260 analog launcher is approximately 35 pounds and the empty weight of the M261 analog launcher is approximately 82 pounds. The analog launcher permits fuze-timing selections from the cockpit and will launch guided / unguided rockets using either the MK40 or the MK66 motors. 2.75 Inch Rocket Launcher procurement funding supports the launcher system to include resolution of obsolescence, safety, reliability, weapon integration activities, test sets, engineering changes, and production issues.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.256	-	1.275	-	1.275	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**2.256**	**-**	**1.275**	**-**	**1.275**	**-**	**-**	**-**	**-**

Justification:

FY 2023 combat expenses in support of Operation Enduring Sentinel and Operation Inherent Resolve in the amount of $1.275M will procure 64 M261 launchers for the Army in support of deployed units' ongoing military operations.

"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."

Exhibit P-40, Budget Line Item Justification: PB 2023 Army	Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	**P-1 Line Item Number / Title:** 9157J01200 / Launcher Guided Missile: Longbow Hellfire XM299

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	3.982	8.982	-	-	-	-	-	-	-	-	-	12.964
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	3.982	8.982	-	-	-	-	-	-	-	-	-	12.964
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**3.982**	**8.982**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**12.964**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Launchers and Test Sets Product Office is the executive procurement agent for M299 Launchers for all services and Foreign Military customers. This budget line procures all M299 launchers in support of Army operational, training, and war reserve requirements. The M299 launchers are qualified to carry and fire the AGM-114 Family of Missiles and the Joint Air-to-Ground Missile. Each launcher contains: Launcher electronics assembly (LEA) that communicates with the aircraft via bus commands, provides missile launch sequencing, seeker type ID, missile "Hang fire/Misfire" determination, alternate laser code algorithm processing, and Alternating Current (AC) to Direct Current (DC) power conversion for supplying missile DC power; Wiring harnesses that provide electrical connection from LEA to missile rails (not interchangeable with M272 harnesses); Holdback latch that retains missiles on rails and Safe/Arm switch that mechanically interrupts the arm power going to the LEA. The weight of the M299 launcher (4-Rail Launcher) is approximately 114 pounds and the length of the M299 is approximately 66.3 inches. M299 Longbow HELLFIRE Launcher procurement funding supports the launcher system to include resolution of obsolescence, safety, reliability, weapon integration activities, test sets, engineering changes, software, and production issues.

Secondary Distribution		FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	8.982	-	-	-	-	-	-	-	-
Total: Secondary Distribution	**Quantity**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Total Obligation Authority	**8.982**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Justification:

J01201000 Launcher Guided Missile: Longbow Hellfire XM299 has no FY2023 funding request.

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.